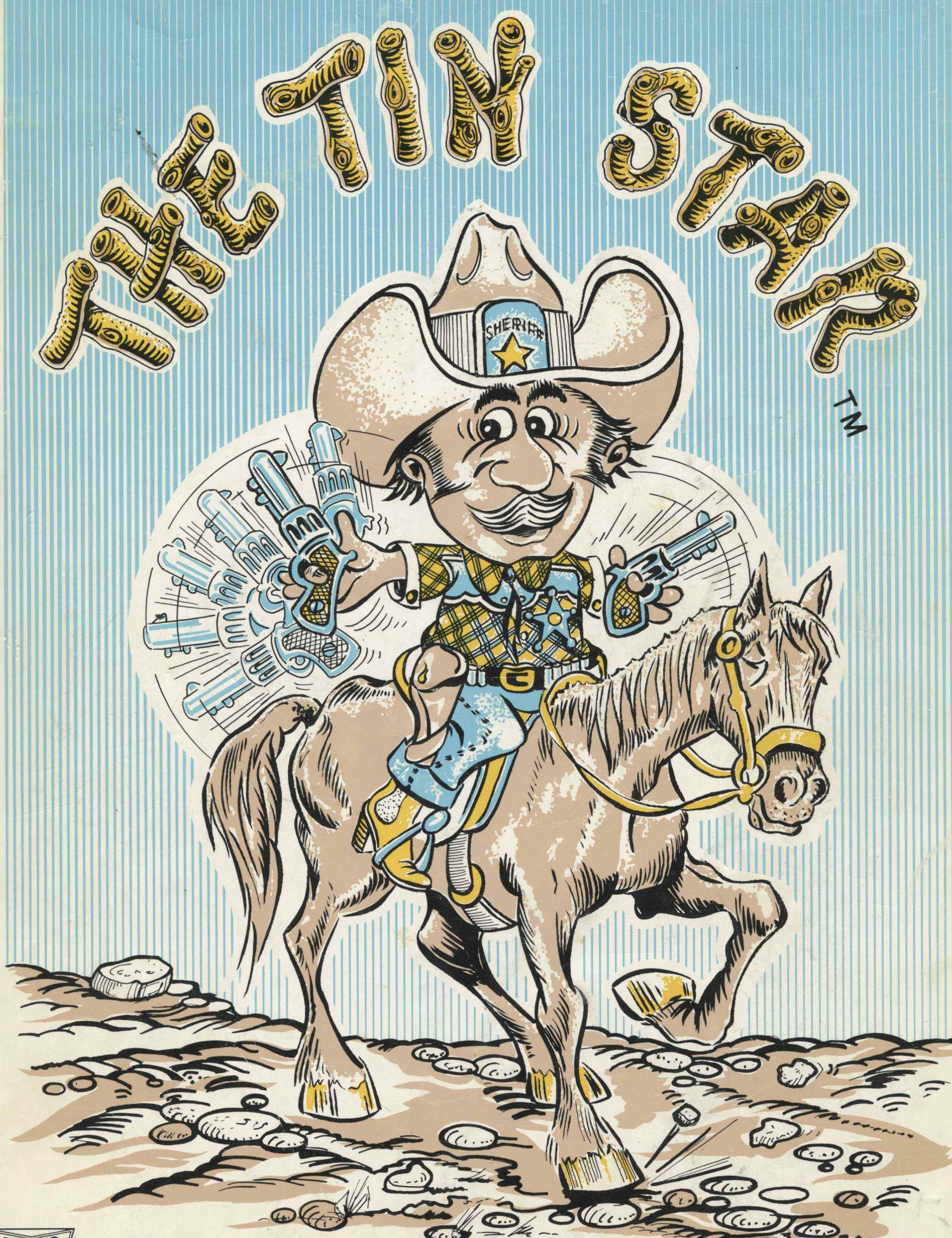
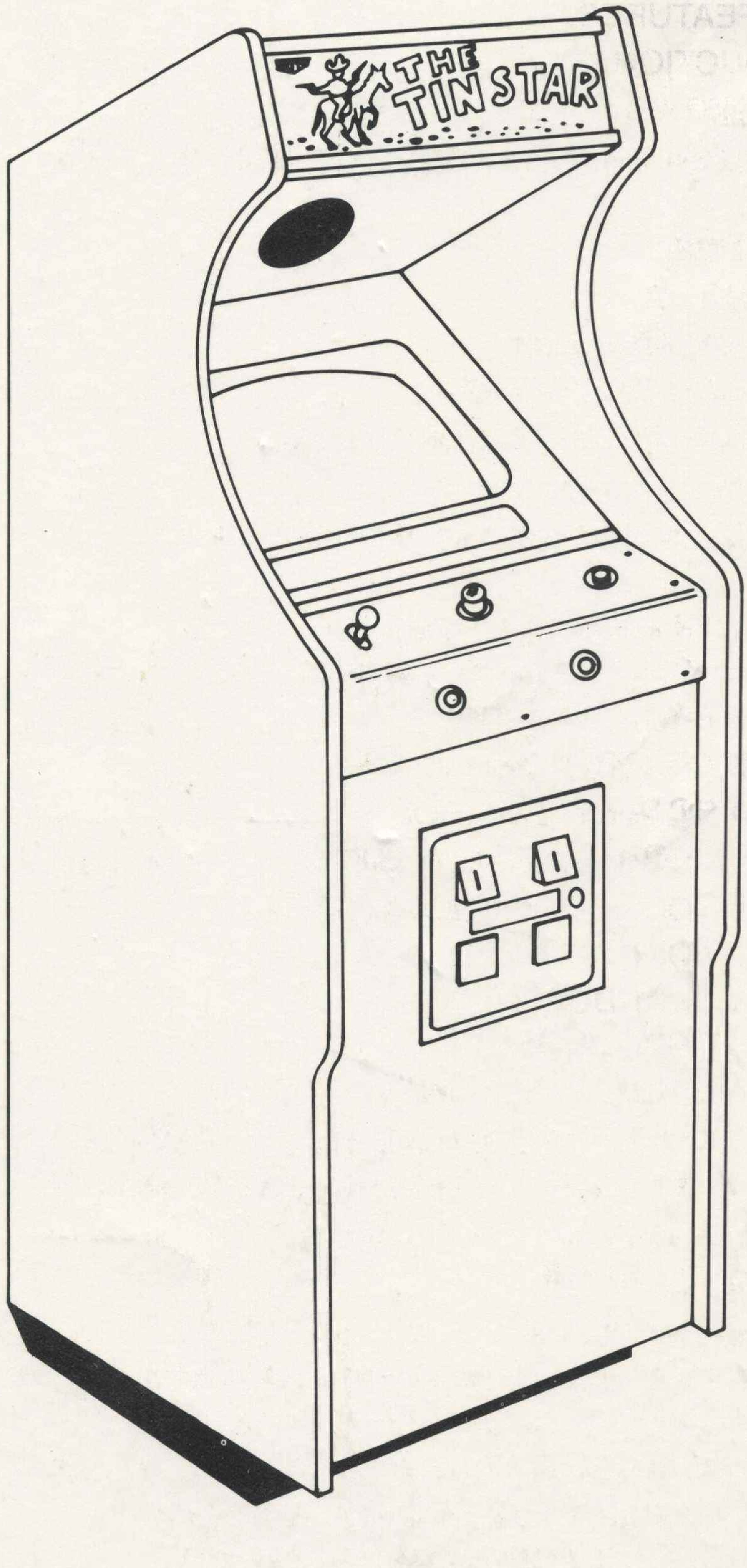

THE TIN STAR
TM
SHERIFF


THE TIN STAR

"THE TIN STAR"™ UPRIGHT
TABLE OF CONTENTS

"THE TIN STAR"™ UPRIGHT

1. GAME SET-UP

A. GAME FEATURES

TAITO AMERICA CORPORATION'S "THE TIN STAR"™ upright game is housed in a compact and highly serviceable cabinet with many added features.

A larger designed cash box has been incorporated into the design of this cabinet.

By putting wheels on the cabinet, moving the game from one location to another is made much easier.

The Control Panel has a polycarbonate overlay, so cigarette marks and mars can easily be wiped clean. This overlay can be replaced if necessary.

The Marquee and Coverglass are made of fully Tempered Glass to minimize breakage.

The Back Service Door houses all the P.C. Boards for the system making servicing of the game, if needed, much easier.

Lighted instructions are provided to further enhance the game and attract players, by making the instructions easier to read.

B. INTRODUCTION

TAITO AMERICA CORPORATION'S "TIN STAR" upright game is designed for one or two players.

In the Tin Star, Zeke's latest adventure, our hero rides into town to protect the law-abiding citizens from bandits & varmits. From a shoot-out in the street, to an ambush in the saloon, to a corral brawl, to the bonus round in the open desert where lonesome lawman Zeke can double his score by shooting an hombre from his horse, Zeke is a sharp-shootin', high-jumpin' sheriff out to tame the Wild West.

C. GAME INSTALLATION

TAITO AMERICA CORPORATION'S "THE TIN STAR"™ upright game is shipped ready for operation, but a last visual check should be made to insure the game is in good condition. Please verify the following before turning the game on.

Check the exterior of the game for shipping damage, chips, dents, or broken parts.

* Open the Rear Service Door and check for any interior damage.
* Make sure there isn't any damage to the wiring.
* Check the Printed Circuit Boards, making sure there is no damage to the components.
* Check fuses to make sure they are firmly in their holders.
* Check for loose foreign objects, especially metal objects which may cause electrical problems.
* Check Plug-in Connectors making sure they are firmly in their sockets.
* Check Switches making sure they are not damaged.

The Video Monitor is properly adjusted before shipping. If there are any adjustments necessary, refer to our Video Monitor Manual (72-00025-001). This manual contains all the manufacturers recommendations for adjusting the video monitor.

POWER REQUIREMENTS

TAITO AMERICA CORPORATION's "THE TIN STAR"™ upright game is shipped ready for operation at 120VAC, 60Hz with a power consumption of approximately 250 Watts.

CAUTION

For safe operation it is recommended the cabinet be grounded. This game is equipped with a three conductor power cable. The third conductor is the ground conductor and when the cable is plugged into an appropriate receptacle the game is grounded. The offset pin on the power cable's three-prong connector is the ground connection.

LOCATION SPACE

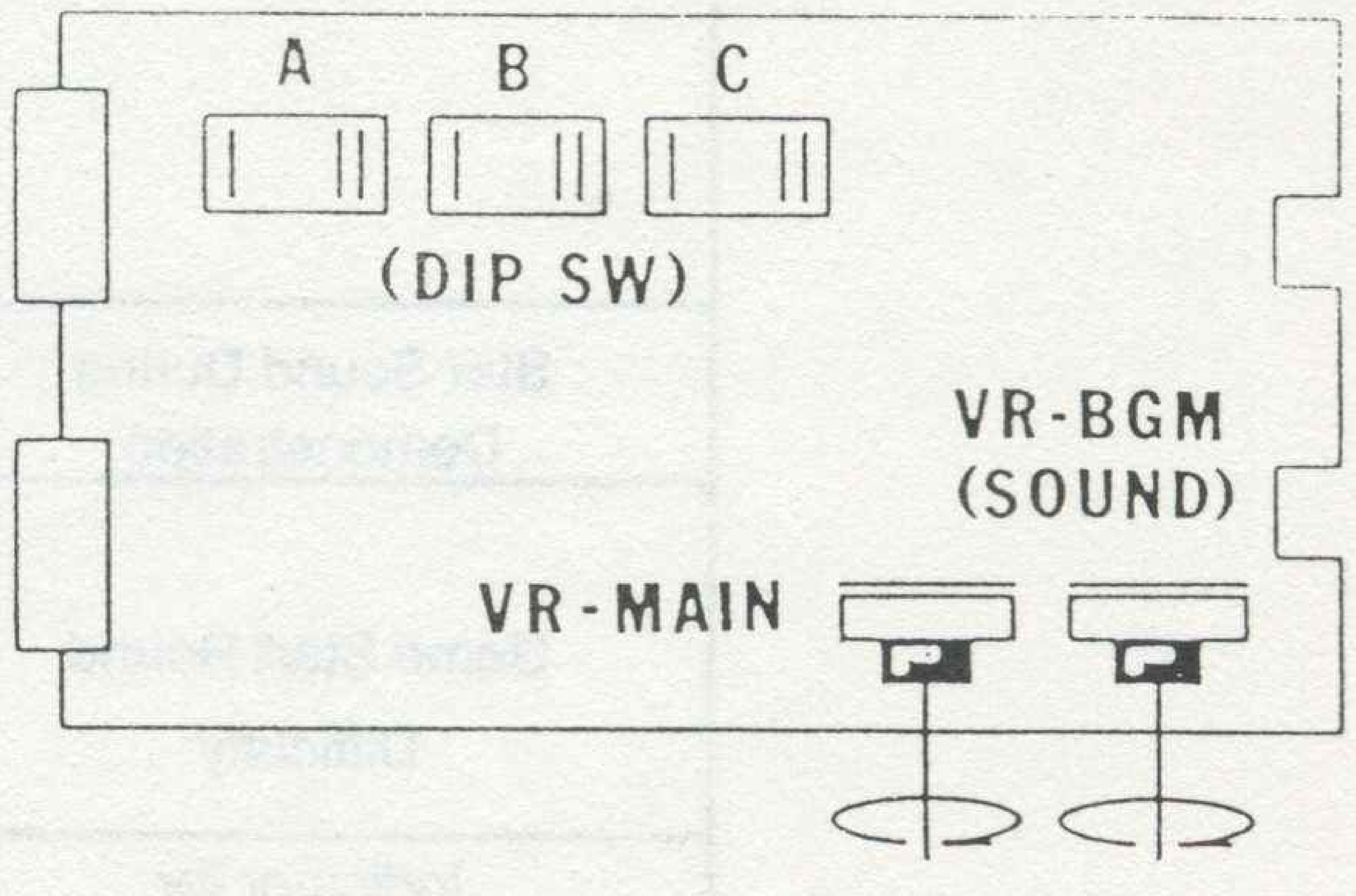
Depth 35" (87.5cm)
Width 24" (61cm)
Height 68" (171cm)
Weight 300 lbs.
(Packaged Weight)

D. DIP SWITCH AND VOLUME CONTROL SETTINGS

DIP SWITCHES

TAITO AMERICA CORPORATION'S "THE TIN STAR"™game provides the following option switches. See Figure 1. These option switches can be found on the Game Board.

FIGURE 1



DIP. SW.-A

		1	2	3	4	5	6	7	8
Scores for Additional Players	70,000 - 140,000	ON	ON						
	50,000 - 100,000	OFF	ON						
	30,000 - 60,000	ON	OFF						
	10,000 - 30,000	OFF	OFF						
Free Play	Free Play			ON					
	Ordinary Play			OFF					
Number of Players	5				ON	ON			
	4				OFF	ON			
	3				ON	OFF			
	2				OFF	OFF			
Monitor	Invert Screen							ON OFF	
Game Style	Upright								ON
	Table								OFF

DIP. SW.-B

LEFT	1	2	3	4	
RIGHT	5	6	7	8	
	ON	ON	ON	ON	1 COIN-1C
	OFF	ON	ON	ON	1 COIN-2C
	ON	OFF	ON	ON	1 COIN-3C
	OFF	OFF	ON	ON	1 COIN-4C
	ON	ON	OFF	ON	1 COIN-5C
	OFF	ON	OFF	ON	1 COIN-6C
	ON	OFF	OFF	ON	1 COIN 7C
	OFF	OFF	OFF	ON	1 COIN-8C
	ON	ON	ON	OFF	2 COIN-1C
	OFF	ON	ON	OFF	3 COIN-1C
	ON	OFF	ON	OFF	4 COIN-1C
	OFF	OFF	ON	OFF	5 COIN-1C
	ON	ON	OFF	OFF	6 COIN-1C
	OFF	ON	OFF	OFF	7 COIN-1C
	ON	OFF	OFF	OFF	8 COIN-1C
	OFF	OFF	OFF	OFF	9 COIN-1C

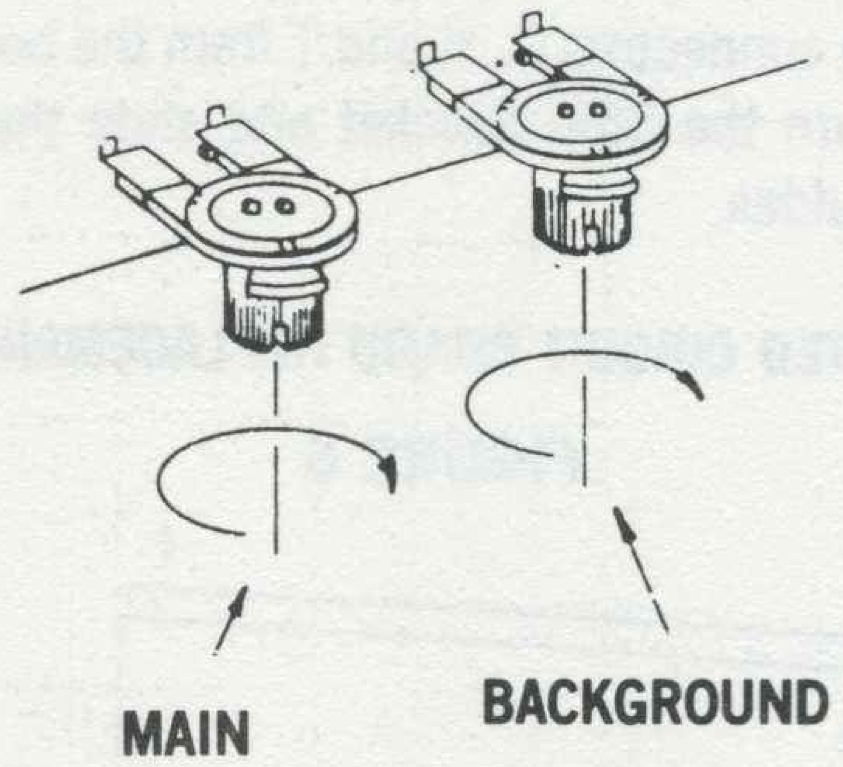
DIP. SW.-C

		1	2	3	4	5	6	7	8
Star Sound During Demonstration	Sounds		ON						
	No Sound		OFF						
Game Start Round Difficulty	from 4th round			ON	ON				
	from 3rd round			OFF	ON				
	from 2nd round			ON	OFF				
	from 1st round			OFF	OFF				
Indicator for Number of Coins	on					ON			
	off					OFF			
Year Indicator	on						ON		
	off						OFF		
Hit Detection	no hit							ON	
	Ordinary Game							OFF	
Coin	1 way								ON
	2 way								OFF

VOLUME CONTROL SETTING

The Volume increases by turning the potentiometer as indicated in Figure 2.

VOLUME CONTROL LOCATIONS
FIGURE 2



POWER ON OFF SWITCH

The power on/off switch is located in the front lower left hand corner of the cabinet.

2. MAINTENANCE

All games require a certain amount of maintenance to keep them in good condition. A periodic check of mechanical controls would be benefical to guarantee your game will be profitable.

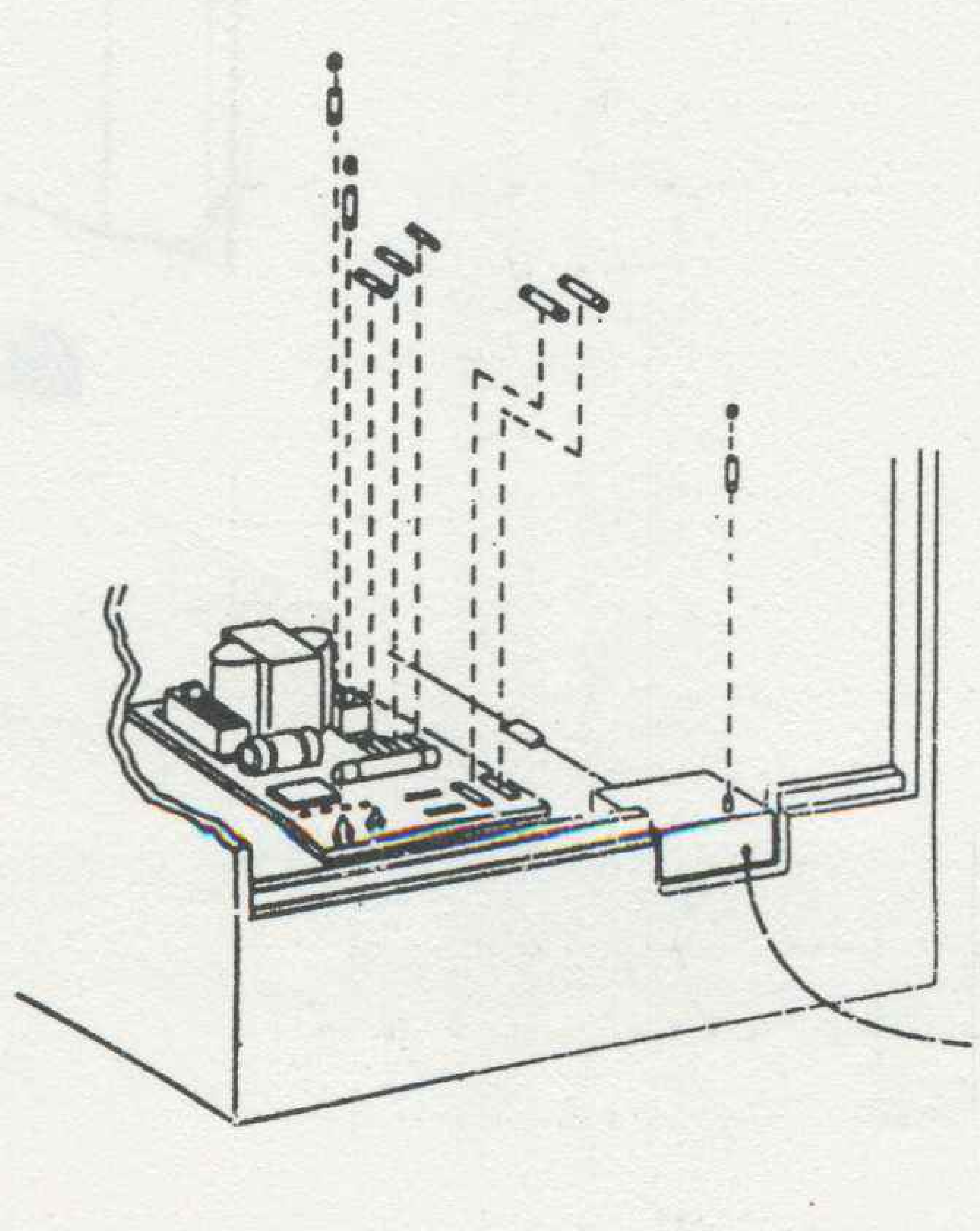
A. CLEANING

The exterior of the game, all metal parts and all plastic parts can be cleaned with an non-abrasive cleanser. Caution should be used when cleaning the plastic, a dry cloth can cause scratches and result in a foggy appearance.

B. FUSE REPLACEMENT

This game contains 8 fuses. Seven of these fuses can be found on the Power Supply Assembly, five (5) are on the PCB and two (2) are on the Power Supply Bracket. One(1) is located at the bracket where the AC line cord comes into the cabinet. See Figure for location of these fuses.

FUSE REPLACEMENT
FIGURE 3



C. VIDEO MONITOR REMOVAL

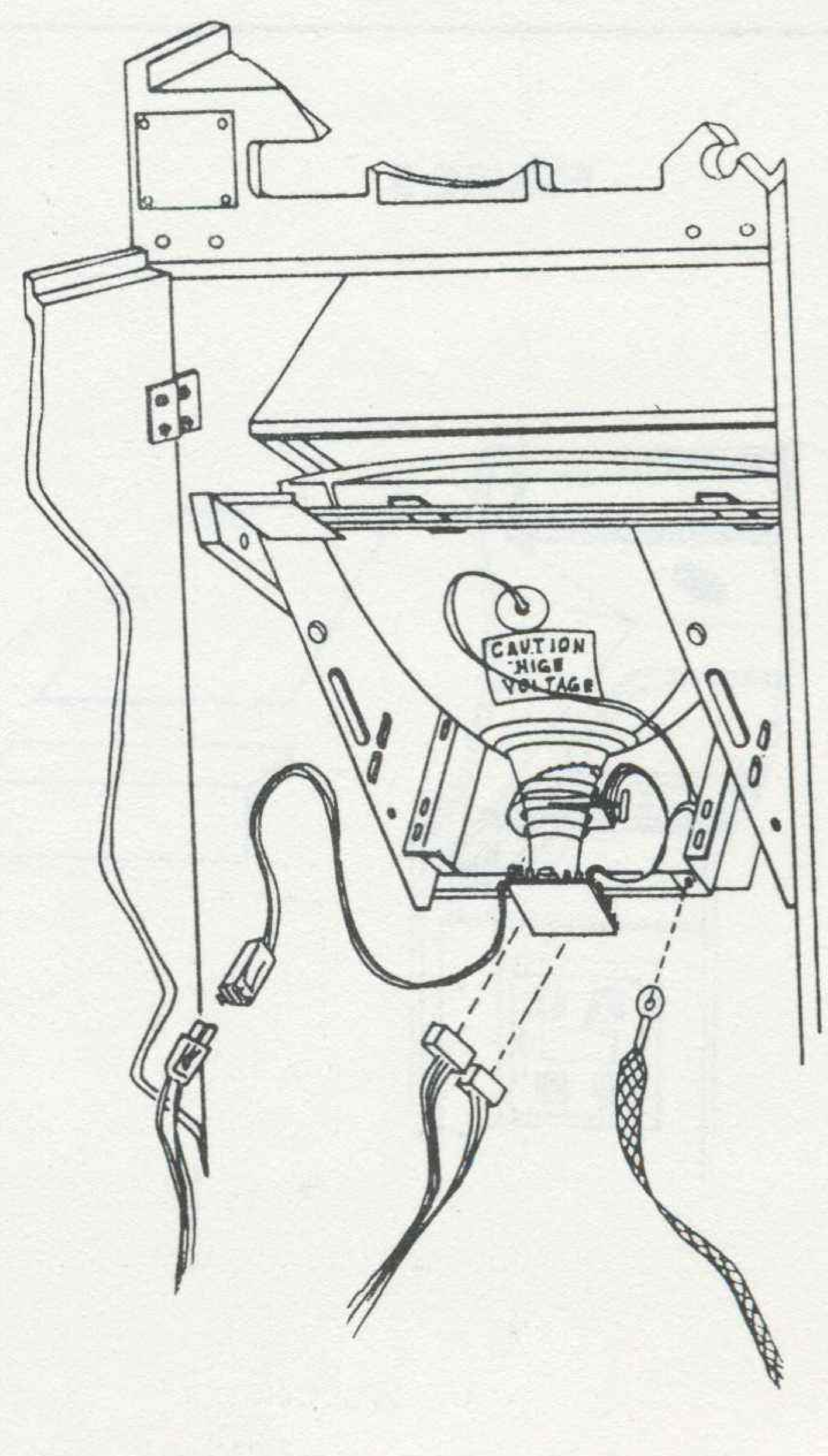
If you need to remove the Video Monitor follow the instructions listed below:

> **NOTICE:**
>
> "This equipment complies with the requirements of Part 15 of FCC Rules for a Class A computing Device. Operation of this equipment in a residential area may cause unacceptable interference to radio and T.V. reception requiring the operator to take whatever steps are necessary to correct the interference."

* Turn game switch off.
* Disconnet the power from the line voltage.
* Make sure back door is open fully.
* Disconnect the Monitor cable connector.
* While holding the monitor bracket take out the two rear side bolts, one on each side of the cabinet.
* Carefully lower the monitor on to monitor stops.
* Remove the four mounting bolts and disconnect the braided ground wire.
* Slide the monitor out by pulling the monitor toward you.

> **CAUTION**
>
> Use extreme caution and do not touch electrical parts of the Monitor Yoke area with your hands or with any metal object in your hands! High voltages may exist in any Monitor, even with power disconnected.

MONITOR REMOVAL
FIGURE 4



D. PRE GAME INSTALLATION

The following precautions should be followed when installing the game.

* Avoid rough handling of the game, the picture tube is fragile.
* Install the game on a level surface.
* Avoid installing the game where it may receive excessive sunlight or heat, to protect the game from rising internal temperatures.
* Do not install in a damp or dusty location.
* For a short time after connecting the power to the game, the picture may be temporarily distorted.

The monitor's purity is affected by the earth's magnetic field, causing a variation of color. By turning the game on for 10 to 15 seconds and then off for 20 to 30 minutes, the automatic degaussing circuit applies a degaussing field to the edges of the monitor. Doing this several times will correct the problem. Another way to correct this problem is to purchase a degaussing coil or bulk tape eraser at any Electronics store. This will help to immediately demagnetize the Video tube. Caution must be used with a degaussing coil so the magnetic field of the degaussing coil is not allowed to become too intense at any one place on the picture tube thereby causing a localized color distortion. If you move the game to another location after degaussing the problem may reappear. Refer to Monitor Manual.

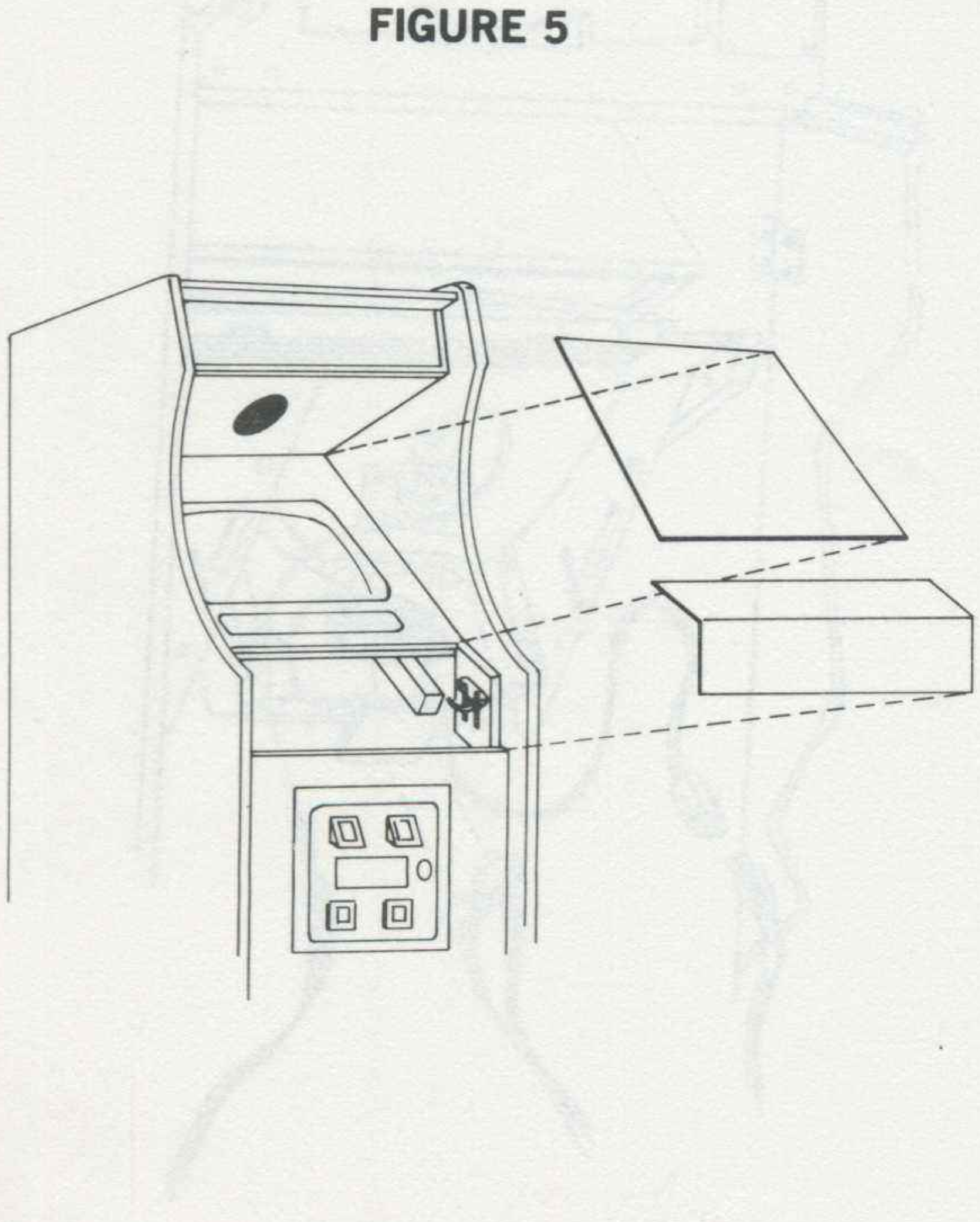
E. COVERGLASS REMOVAL

To remove the Coverglass follow the Instructions listed below:

1. Remove the control panel by reaching up through the Coin Door and unlatching the latching clamps.
2. Disconnect the Control Panel Cable and lift out.
3. Lift the Control Panel out. The Coverglass can now be easily removed from the front of the game with no screws. To replace the coverglass simply reverse the above procedure.

> NOTE: Be sure you are holding the glass firmly to ensure against any chipping or breakage.

FIGURE 5



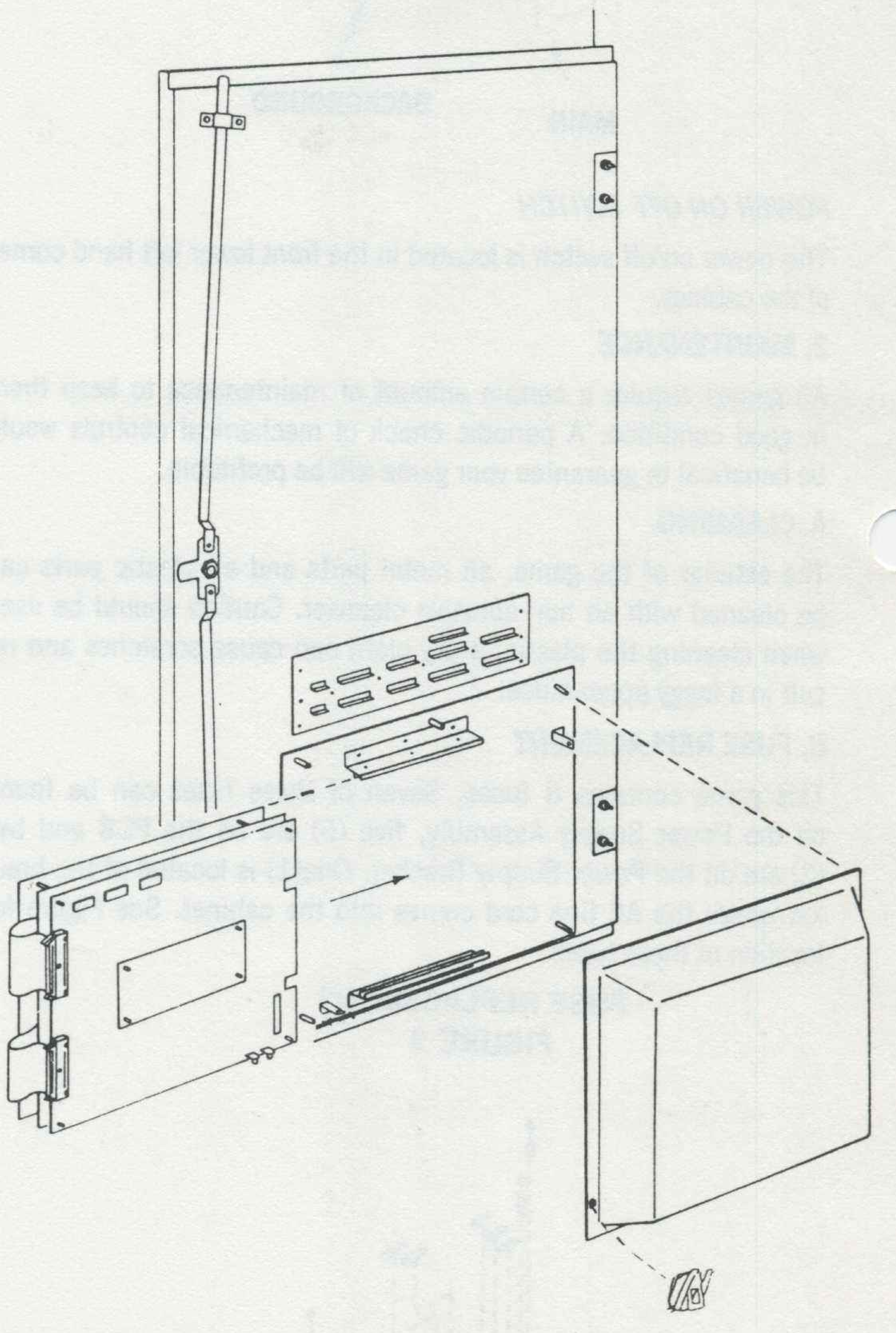
F. PRINTED CIRCUIT BOARD REPLACEMENT

You may wish to remove the "THE TIN STAR"™ Printed Circuit Boards for servicing. Refer to Figure 6. The Tin Star Printed Circuit Boards are located on the inside of the rear Service Door for easy access. To remove the boards the following steps should be followed:

1. Open the rear service door, the power will automatically be removed by the Interlock Switch located on the inside of the door frame.
2. Remove the speed nuts from studs and lift off shield.
3. Disconnect the connectors G, H and T from the boards.
4. Loosen and turn the Stop Bracket and slide the boards out of the board guides.

PRINTED CIRCUIT BOARD REPLACEMENT

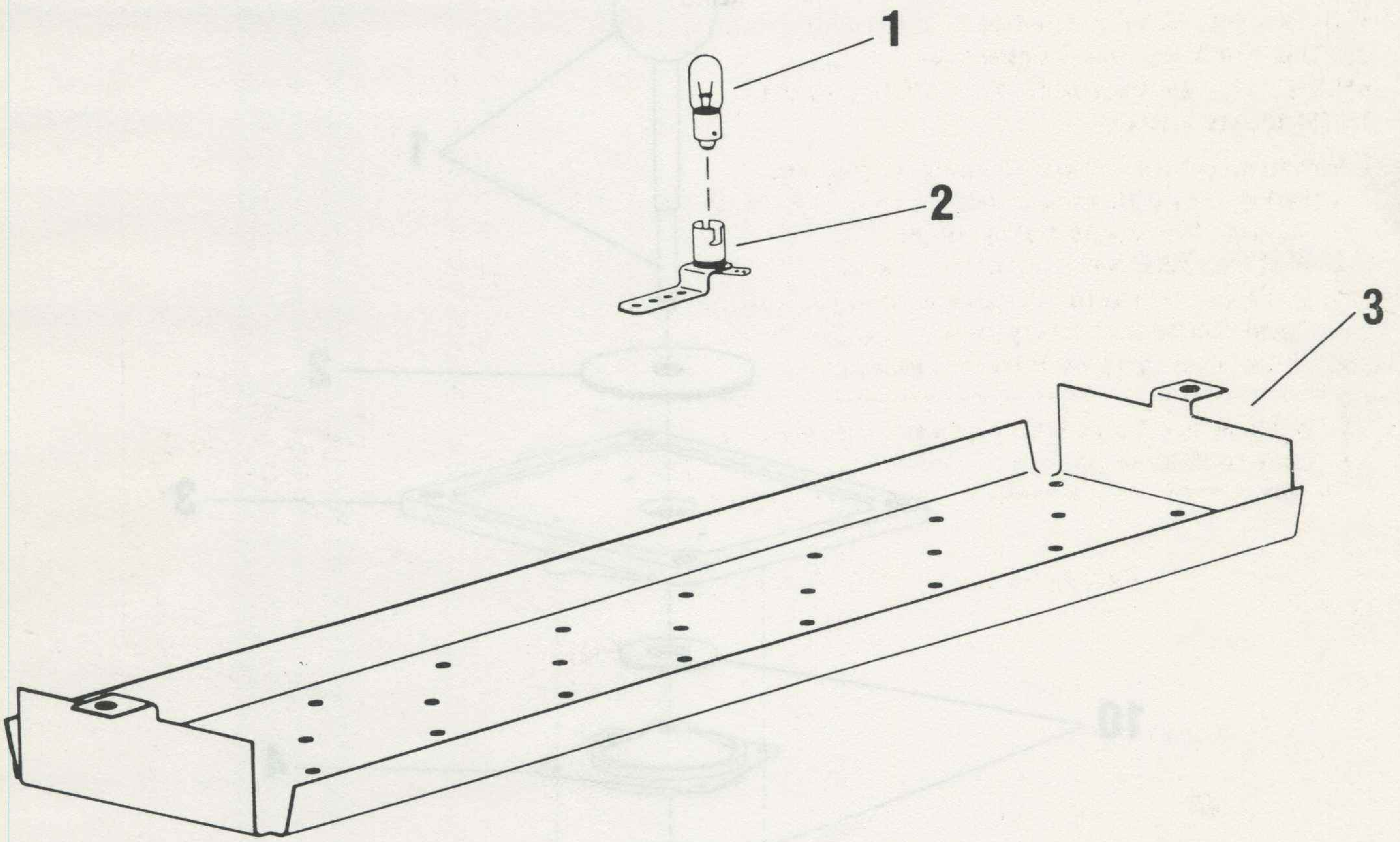
FIGURE 6



INCANDESCENT PANEL

FIGURE 7

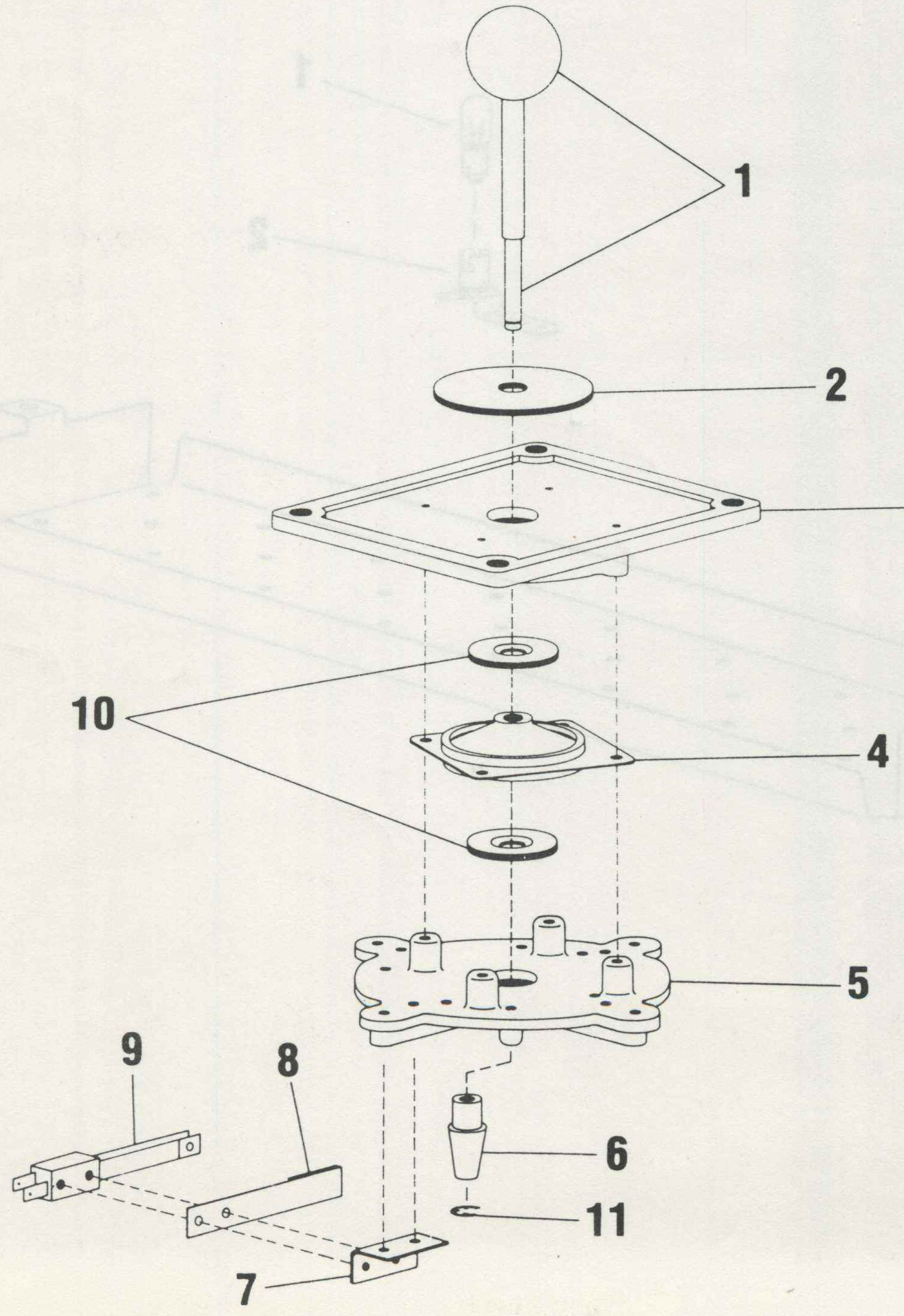
ITEM	TAITO PART NO.	DESCRIPTION
1	27-00006-001	LAMP #47
2	26B00009-001	BAYONET BASE SOCKET
3	61D00112-001	MARQUEE LIGHTING PLATE



8-WAY JOYSTICK

FIGURE 8

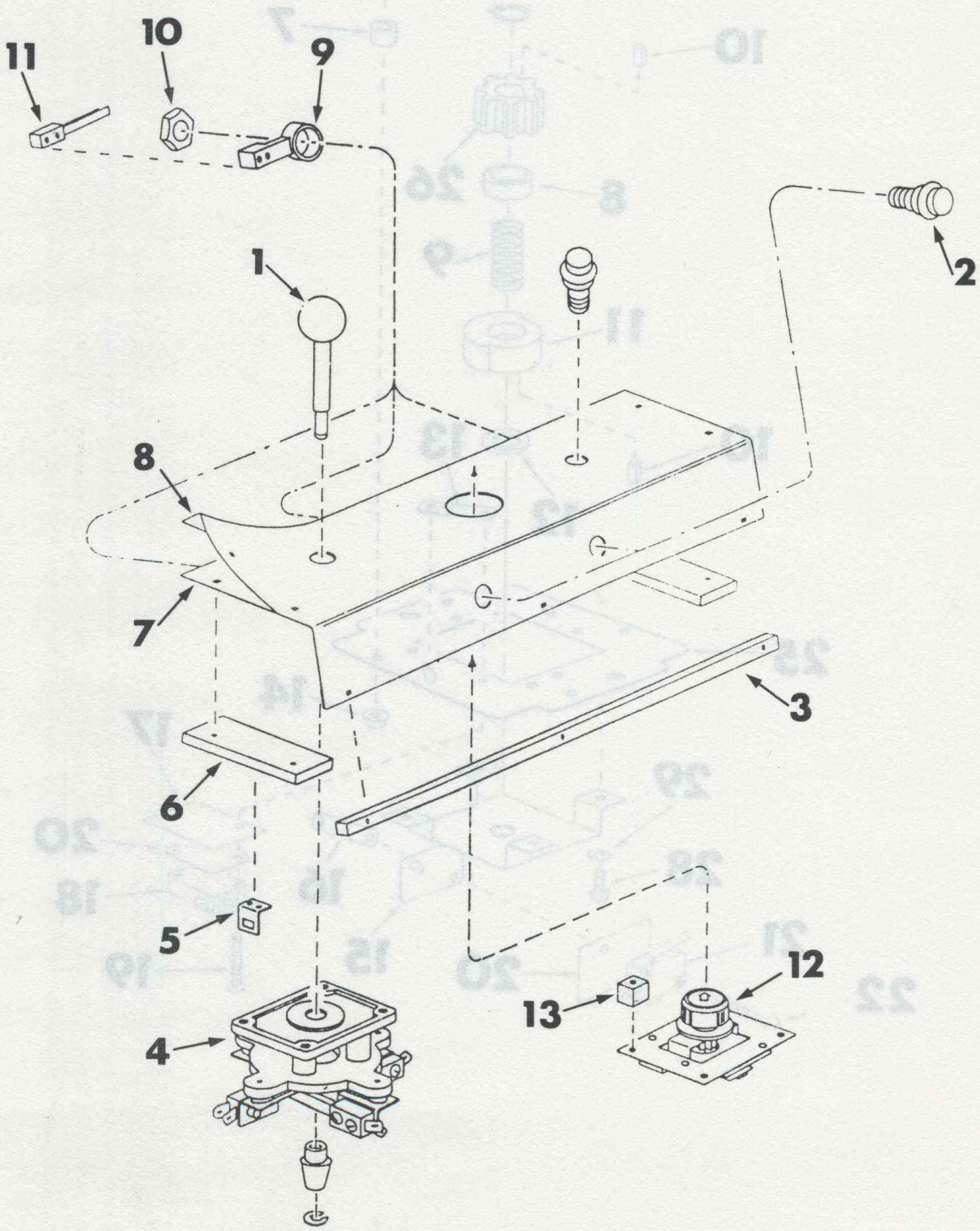
ITEM	TATIO PART NO.	DESCRIPTION
1	63B00031-001	BALL & SHIFT
2	63A00033-001	MASK
3	63-00027-001	MOUNTING PLATE
4	62A00002-001	SHOCK MOUNT PLATE
5	63-00028-001	SWITCH PLATE
6	63-00030-001	ACTUATOR
7	61A00078-001	"L" BRACKET
8	63C00029-001	SWITCH SPACER
9	29-00018-001	LEAF SWITCH, SHORT
10	63A00029-001	SPACER
11	59B00020-017	"E" RING



CONTROL PANEL

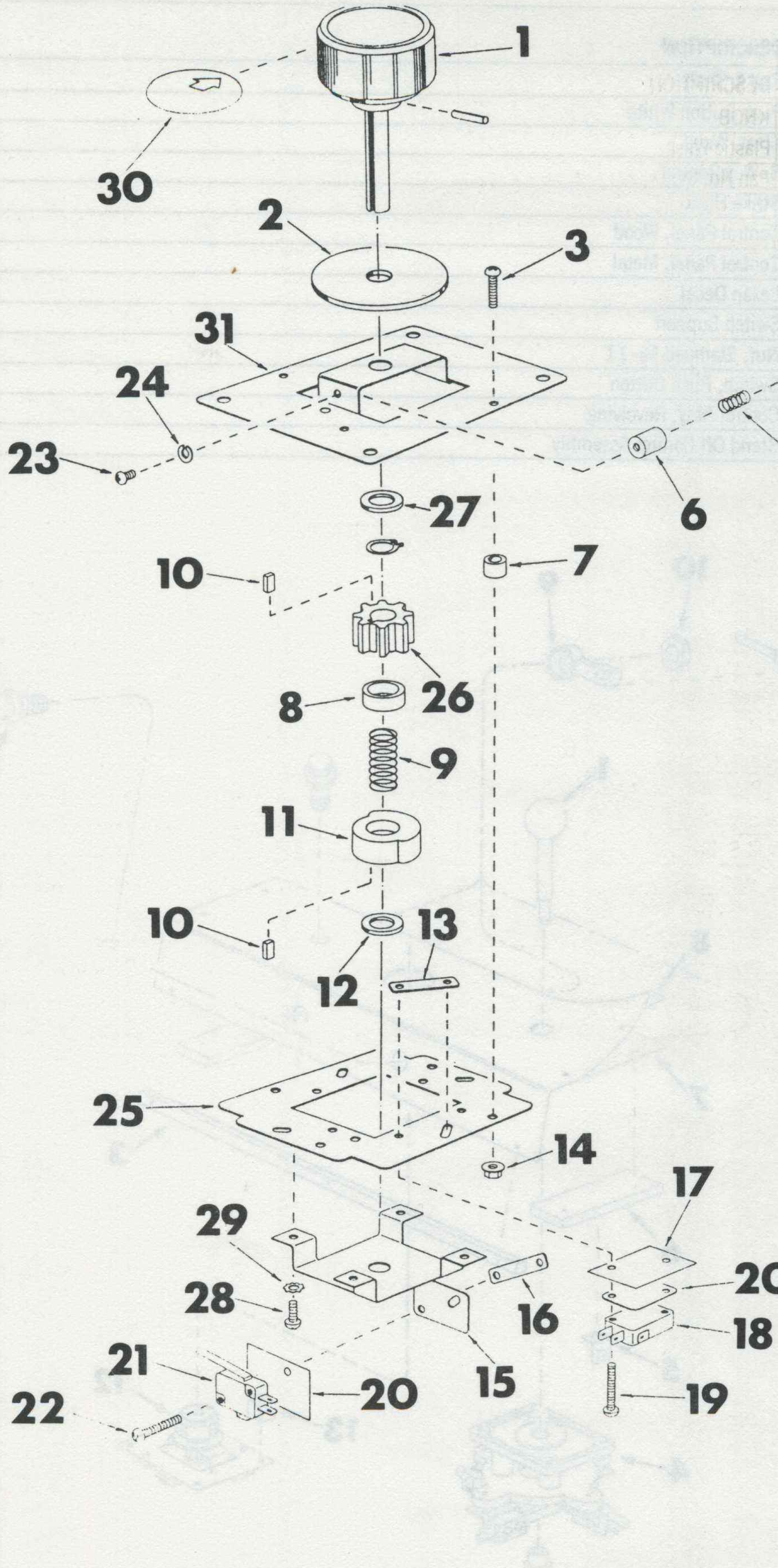
FIGURE 9

ITEM	TAITO PART NUMBER	DESCRIPTION
1	63B00031-001	Ball & Shaft
2	63B00024-001	Push Button White
3	42B00108-001	Cleat, Wood
4	63D00032-006	8-Way Control
5	61A00015-001	Strike Hook
6	42-00150-001	Control Panel, Wood
7	61D00240-001	Control Panel, Metal
8	66-00013-001	Lexan Decal
9	63-00025-001	Switch Support
10	54A07001-008	Nut, Stamped ⅝-11
11	29B00020-001	Switch, Push Button
12	07-00136-001	Control Assy, Revolving
13	42B00132-001	Stand Off Control Assembly



REVOLVING CONTROL ASSEMBLY (WWK00003)

FIGURE 10



REVOLVING CONTROL ASSEMBLY (WWK00003)

FIGURE 10

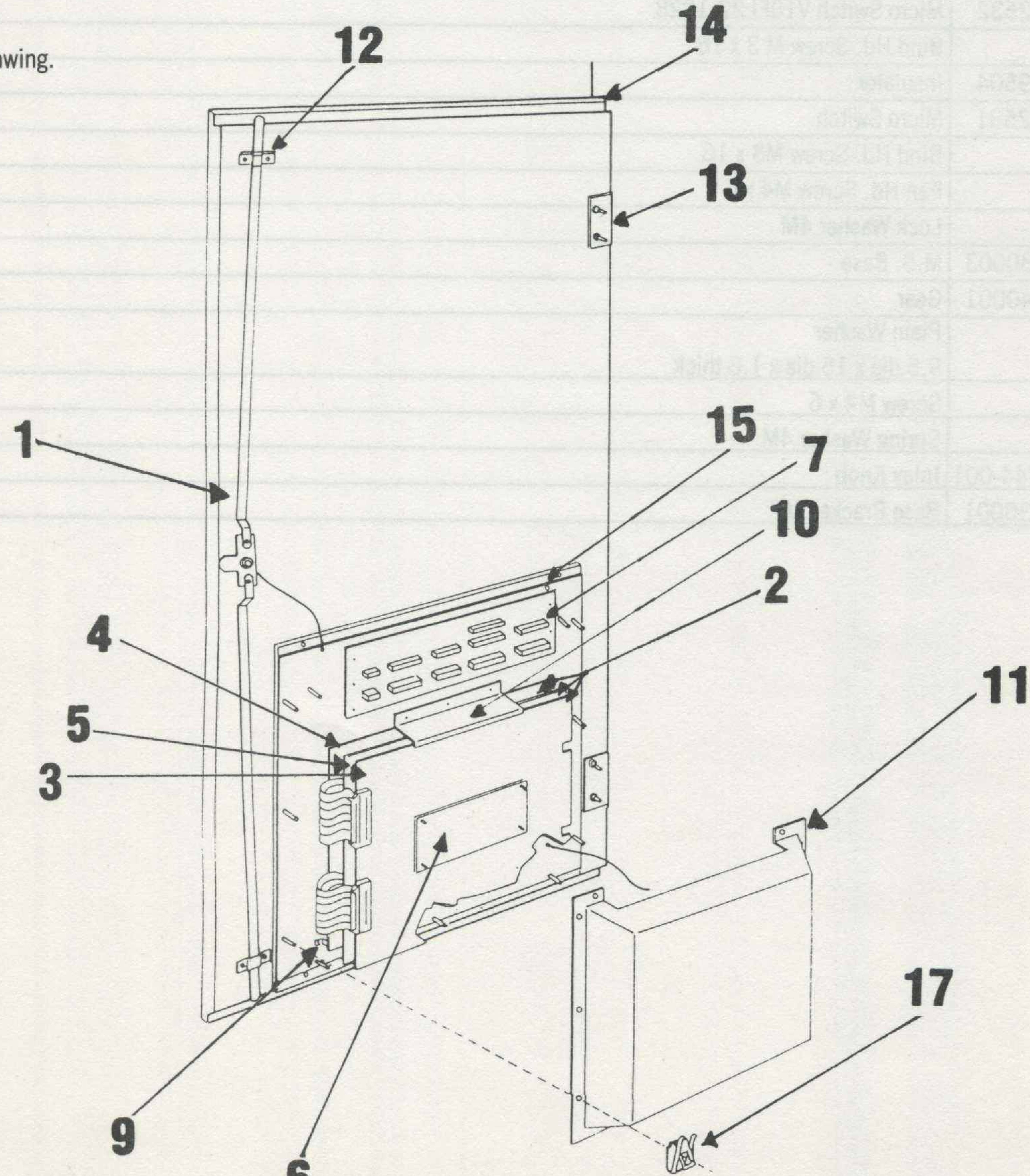
ITEM	TAITO PART NO.	DESCRIPTION
1	99-WW090002	KNOB
2	99-AA010609	Plastic Washer
3		Pan Hd. Screw M4 x 14
4	99-WW020004	¼″ Steel Ball
5	99-WW050002	Spring
6	99-WW020003	Spring Guide
7	99-AA012510	Spacer
8	99-WW020005	Adjust Pipe
9	99-WW050001	Spring
10	99-WW020002	Parallel Key
11	99-WW040002	CAM
12		Plain Washer
13	99-AA013658	Tap Plate
14		Flange Nut M4
15	99-WW0300002	Base Bracket "B"
16	99-AA013658	Tap Plate
17	99-AA019504	Insulator
18	99-AA052532	Micro Switch V10FL22-1C28
19		Bind Hd. Screw M 3 x 16
20	99-AA019504	Insulator
21	99-AA052531	Micro Switch
22		Bind Hd. Screw M3 x 16
23		Pan Hd. Screw M4 x 6
24		Lock Washer 4M
25	99-WW030003	M.S. Base
26	99-WW040001	Gear
27		Plain Washer 9.5 dia x 15 dia x 1.6 thick
28		Screw M4 x 6
29		Spring Washer 4M
30	61A-00244-001	Inlay Knob
31	99-WW030001	Base Bracket "A"

DOOR ASSEMBLY SJC-3

FIGURE 11

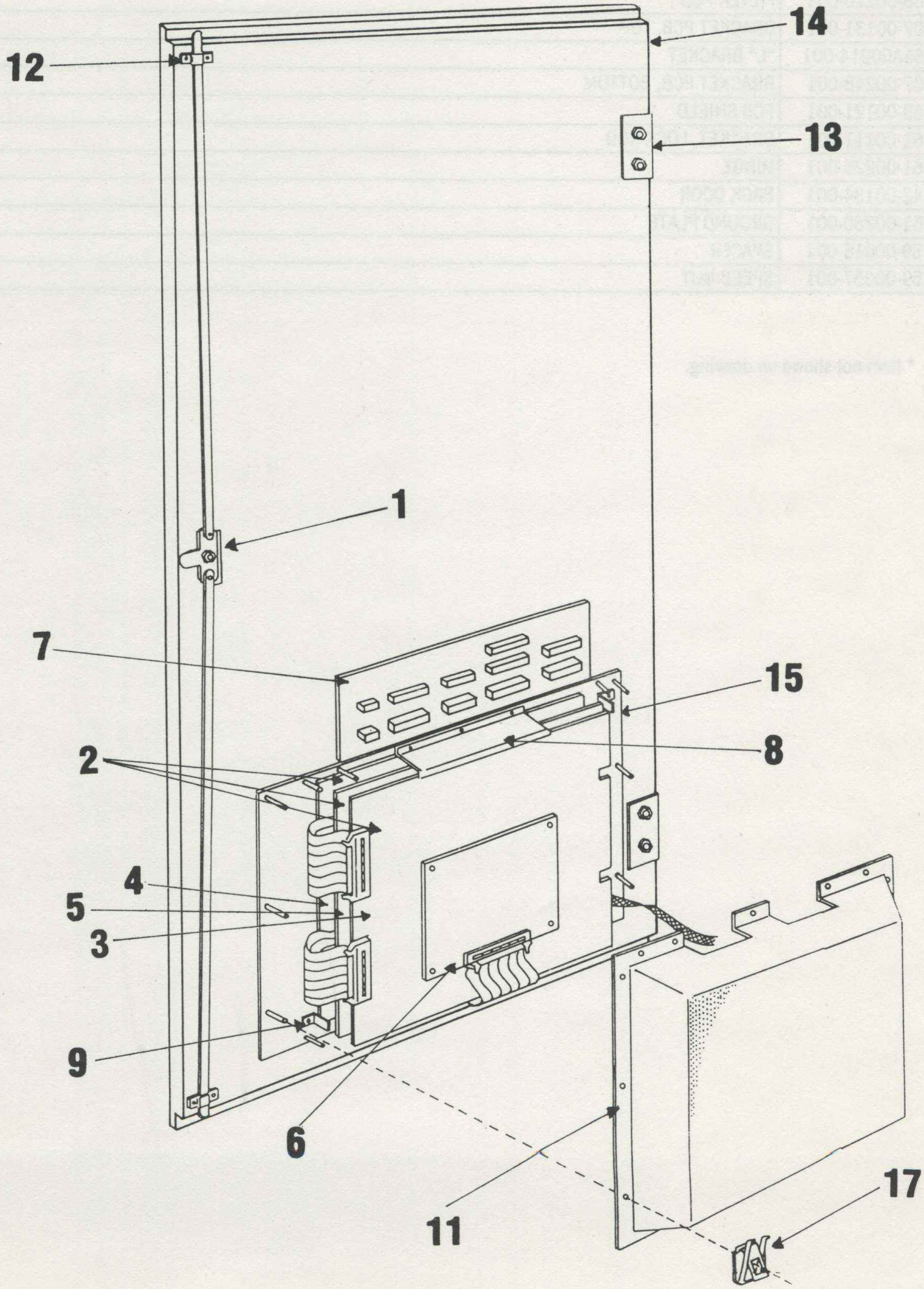
ITEM	TAITO PART NO.	DESCRIPTION
1	61-00142-001	LOCK ROD ASSEMBLY
2	08-00139-001	GAME BOARD SET
3	99-AA017808	GAME PCB
4	99-KN00004	CPU PCB
5	99-AA017810	VIDEO PCB
6	99-KN00005	ROM PCB
*6A	08-00116-003	SECURITY BOARD
7	08-00120-001	FILTER PCB
*8	07-00262-001	BRACKET PC BOARD, BOTTOM
9	61A00014-001	"L" BRACKET
10	07-00261-001	BRACKET PC BOARD, TOP
11	63-00140-001	PCB SHIELD
12	61-00111-001	BRACKET, LOCK ROD
13	61-00229-001	HINGE
14	42-00144-001	BACK DOOR
15	61-00300-001	GROUND PLATE
*16	59-00016-001	SPACER
17	59-00057-001	SPEED NUT

Item not shown on drawing.



DOOR ASSEMBLY SJC-2

FIGURE 12



DOOR ASSEMBLY SJC-2

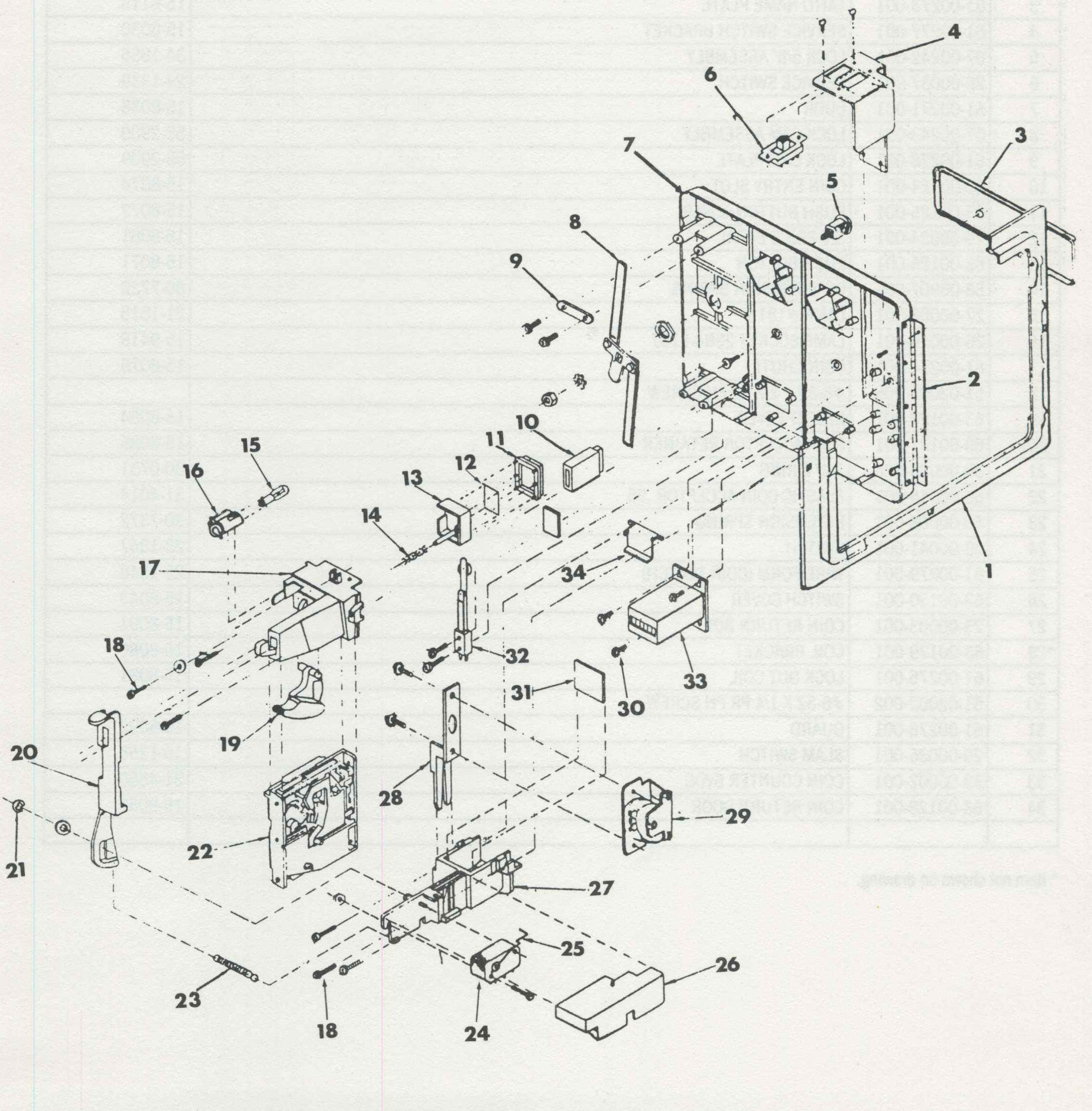
FIGURE 12

ITEM	TAITO PART NO.	DESCRIPTION
1	61-00142-001	LOCK ROD ASSEMBLY
2	08-00139-002	GAME BOARD SET
3	99-AA017808	GAME PCB
4	99-AA017809	CPU PCB
5	99-AA017810	VIDEO PCB
6	99-AA017811	ROM PCB
7	08-00120-001	FILTER PCB
8	07-00131-001	BRACKET PCB, TOP
9	61A00014-001	"L" BRACKET
10*	07-00248-001	BRACKET PCB, BOTTOM
11	63-00121-001	PCB SHIELD
12	61-00111-001	BRACKET, LOCK ROD
13	61-00229-001	HINGE
14	42-00134-001	BACK DOOR
15	61-00280-001	GROUND PLATE
16*	59-00016-001	SPACER
17	59-00057-001	SPEED NUT

* Item not shown on drawing.

COIN DOOR

FIGURE 13



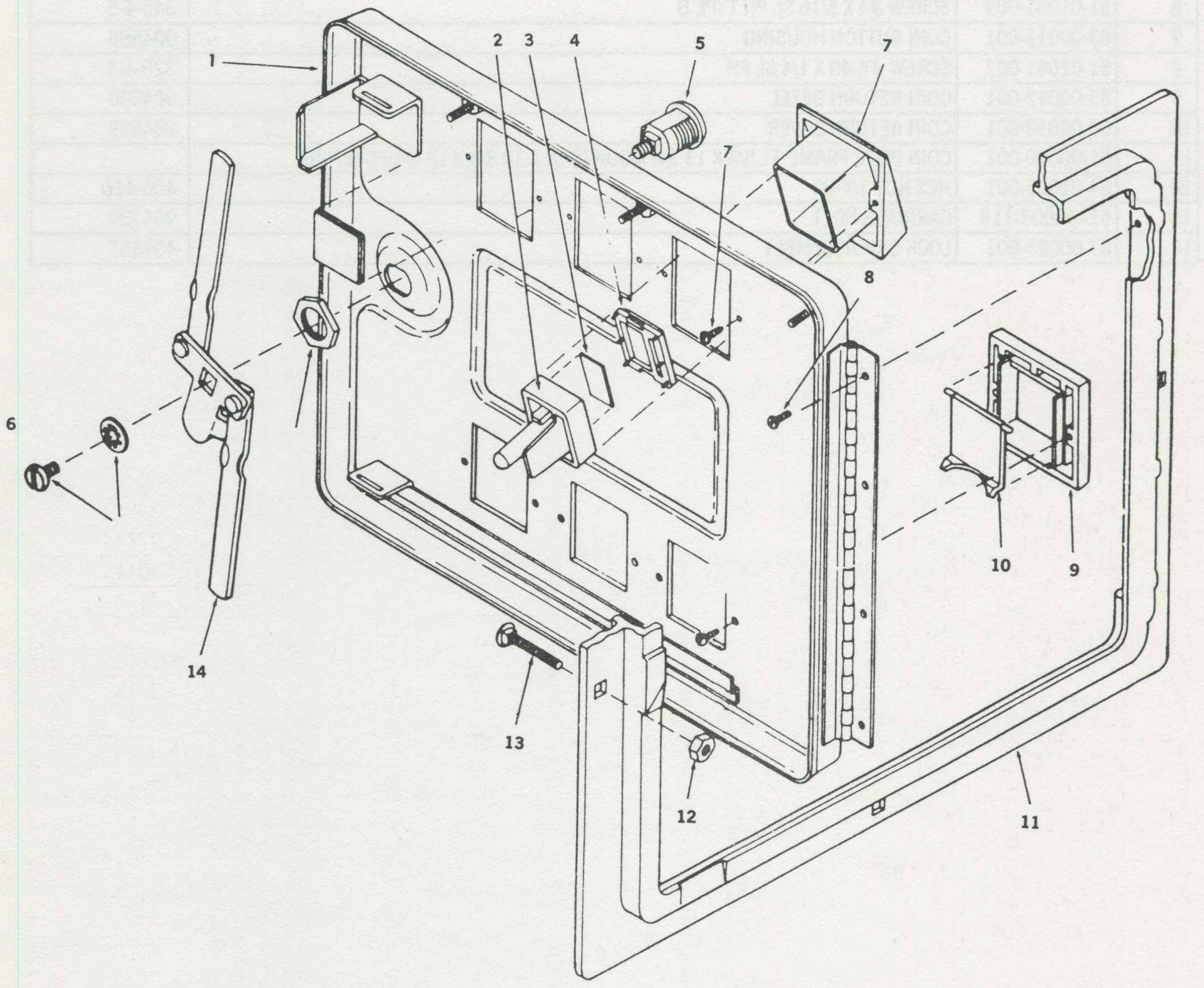
COIN DOOR

FIGURE 13

ITEM	TAITO PART NO.	DESCRIPTION	REFERENCE
1	61-00270-001	DOOR FRAME	15-8039
2	61-00272-001	HINGE	30-9125
3	61-00273-001	TAITO NAME PLATE	15-8115
4	61-00277-001	SERVICE SWITCH BRACKET	15-8030
5	07-00242-001	LOCK 5/8" ASSEMBLY	34-1855
6	29-00037-001	SERVICE SWITCH	23-1339
7	61-00271-001	DOOR	15-8038
8	07-00243-001	LOCK CAM ASSEMBLY	55-2909
9	61-00278-001	LOCK CAM PLATE	55-2909
10	63-00124-001	COIN ENTRY SLOT	15-8074
11	63-00125-001	PUSH BUTTON COVER	15-8072
12	79-50034-001	.25 PRICE DECAL	15-8081
13	63-00126-001	PUSH BUTTON	15-8071
14	58-00007-001	COMPRESSION SPRING	30-7722
15	27-00008-001	LAMP #1815	21-1815
16	26-00019-001	LAMP SOCKET 25B4-L187	15-9419
17	61-00274-001	COIN CHUTE	15-8075
18	51-02002-006	#6-32 X 1/2 PR PH SCREW	
19	63-00127-001	REJECT LEVER	15-8084
20	63-00131-001	COIN ACCEPTOR RETAINER	15-8086
21	59-00020-025	1/4" E RING	30-0731
22	59-00055-001	PLASTIC COIN ACCEPTOR .25	31-4014
23	58-00008-001	EXTENSION SPRING	30-7372
24	29-00041-001	SWITCH	23-1347
25	61-00279-001	WIRE FORM (COIN SWITCH)	23-1348
26	63-00130-001	SWITCH COVER	15-8043
27	23-00003-001	COIN RETURN BOX	15-8091
*28	63-00129-001	COIL BRACKET	15-8080
29	61-00275-001	LOCK OUT COIL	15-8081
30	51-02002-002	#6-32 X 1/4 PR PH SCREW	
31	61-00276-001	GUARD	15-8092
32	29-00036-001	SLAM SWITCH	15-1255
33	33-00002-001	COIN COUNTER 6VDC	31-4550
34	63-00128-001	COIN RETURN DOOR	15-8083

* Item not shown on drawing.

COIN DOOR
FIGURE 14

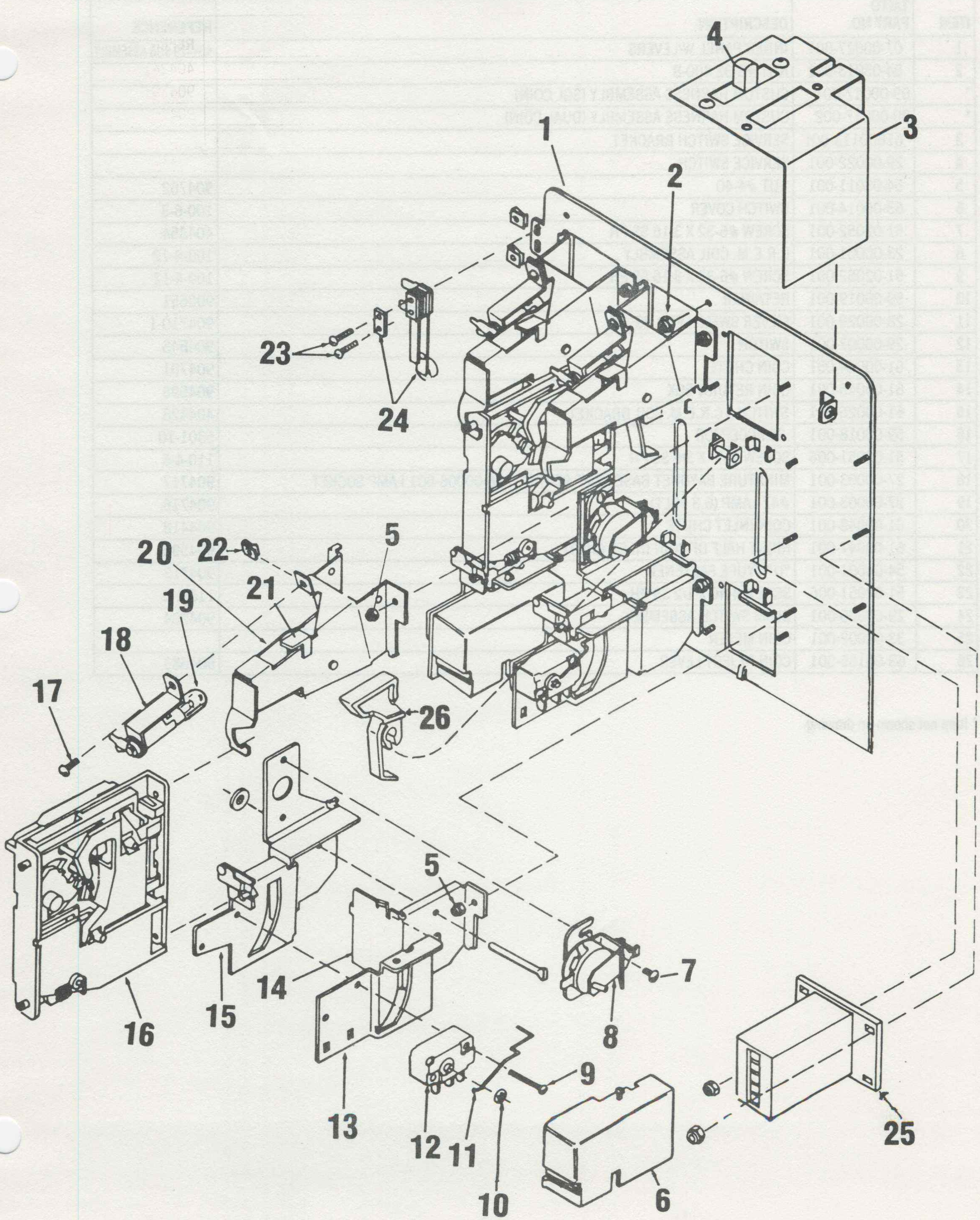


COIN DOOR

FIGURE 14

ITEM	TAITO PART NO.	DESCRIPTION	REFERENCE
1	61-00042-001	COIN DOOR ONLY (2 COIN)	404341
2	63-00015-001	COIN RETURN BUTTON	904591
3	79-50004-001	US ,25 PRICE DECAL	904703
4	63-00016-001	COIN RETURN BUTTON COVER	
5	07-00025-001	LOCK ASSEMBLY	904707-1
6	51-01051-003	SCREW #4 X 5/16 SL PH TYPE B	345-4-5
7	63-00011-001	COIN BUTTON HOUSING	904588
8	51-02051-002	SCREW #4-40 X 1/4 SL PH	325-4-4
9	63-00012-001	COIN RETURN BEZEL	904590
10	63-00013-001	COIN RETURN COVER	904599
11	61-00040-001	COIN DOOR FRAME 11 5/8 X 13 3/8 MOUNTS IN A 10 3/8 X 12 3/16 OPENING	
12	54-01005-001	HEX NUT 1/4-20	406-416
13	51A03003-113	CARRIAGE BOLT	904734
14	07-00026-001	LOCK CAM ASSEMBLY	404357

COIN DOOR
FIGURE 15



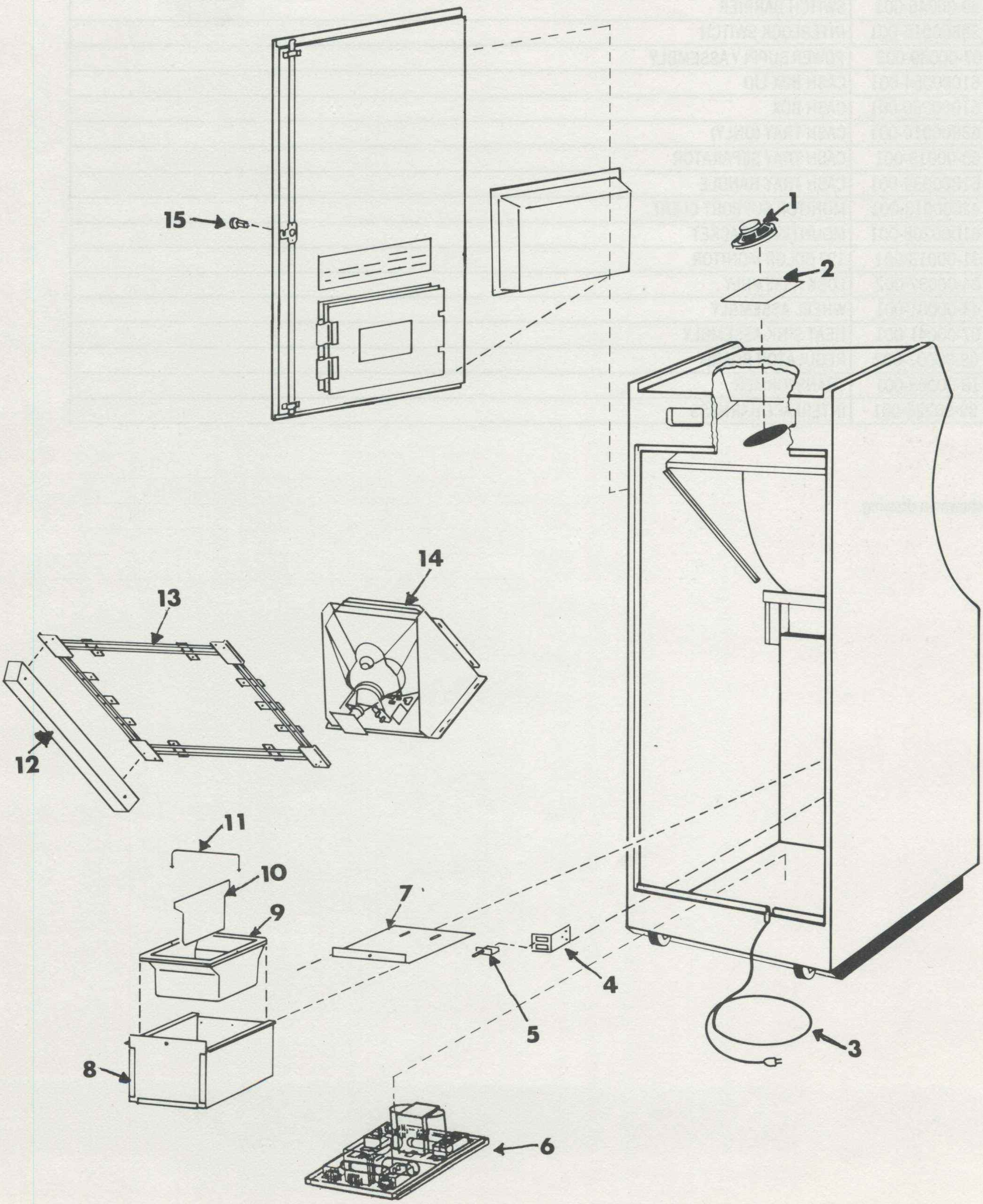
COIN DOOR
FIGURE 15

ITEM	TAITO PART NO.	DESCRIPTION	REFERENCE
1	07-00027-001	INNER PANEL W/LEVERS	404429 SUB ASSEMBLY
2	54-03013-001	NUT #8-32 400-8	
*	09-00017-001	CUSTOM HARNESS ASSEMBLY (SGL COIN)	
*	09-00017-002	CUSTOM HARNESS ASSEMBLY (DUAL COIN)	
3	61B00113-001	SERVICE SWITCH BRACKET	
4	29-00022-001	SERVICE SWITCH	
5	54-03011-001	NUT #4-40	904762
6	63-00014-001	SWITCH COVER	100-6-3
7	51-02052-001	SCREW #6-32 X 3/16 SS PH	404354
8	23-00001-001	C.R.E.M. COIL ASSEMBLY	100-4-12
9	51-02052-001	SCREW #6-32 X 3/16 SS PH	100-4-12
10	59-00019-001	RETAINER	900651
11	28-00029-001	SILVER SWITCH FOR US .25	904710-1
12	29-00007-001	SWITCH	904845
13	61-00044-001	COIN CHUTE	904701
14	61-00045-001	COIN RETURN BOX	904598
15	61-00025-001	SWITCH & C.R.E.M. COIL BRACKET	404428
16	59-00018-001	.25 ACCEPTOR	5301-10
17	51-02051-006	SCREW 4-40 X 3/8 SS PH	110-4-6
18	27-00003-001	MINATURE BAYONET BASE LAMP 904717 * 26-00006-001 LAMP SOCKET	904717
19	27-00003-001	#47 LAMP (6.3 VOLT)	904716
20	61-00048-001	COIN INLET CHUTE	904418
21	61-00047-001	RIGHT HALF OF COIN INLET CHUTE	904594
22	54-00001-001	"U" TYUPE FASTENER	904712
23	51-02051-006	SCREW 4-40 X 1/2 SS PH	116-4-8
24	29-00006-001	SLAM SWITCH ASSEMBLY	904704
25	33-00002-001	COIN METER	
26	63-00155-001	COIN REJECT LEVER	904583

* Item not shown on drawing.

CABINET ASSEMBLY REAR VIEW

FIGURE 16

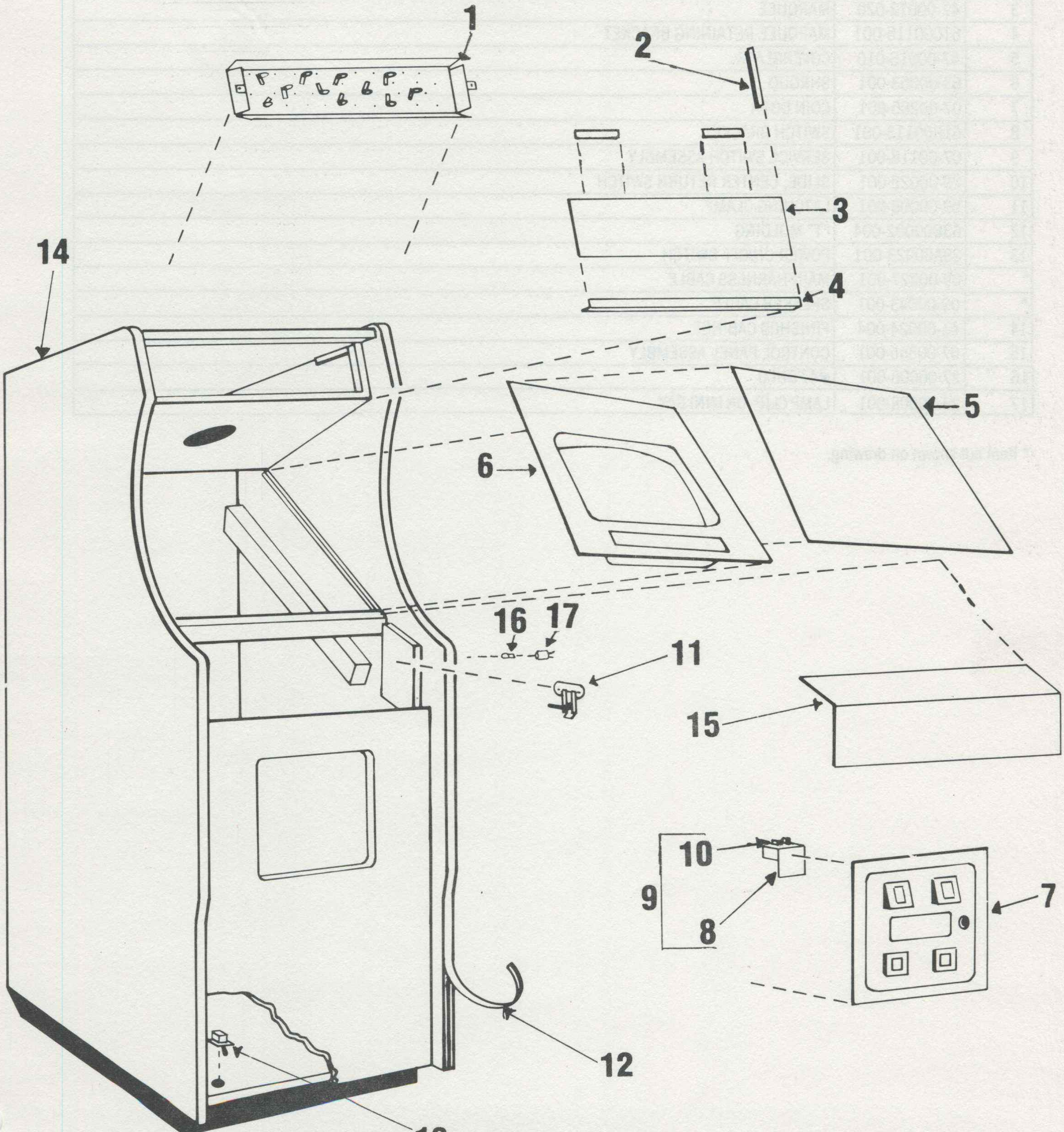


CABINET ASSEMBLY REAR VIEW
FIGURE 16

ITEM	TAITO PART NO.	DESCRIPTION
1	21-00003-001	SPEAKER
2	61B00027-001	SPEAKER GRILL
3	07M00042-001	A/C LINE CORD ASSEMBLY
4	61-00114-001	INTERLOCK BRACKET
*4A	59-00046-001	SWITCH BARRIER
5	29B00015-001	INTERLOCK SWITCH
6	07-00039-003	POWER SUPPLY ASSEMBLY
7	61C00054-001	CASH BOX LID
8	61D00060-001	CASH BOX
9	63R00010-001	CASH TRAY (ONLY)
10	63-00019-001	CASH TRAY SEPARATOR
11	61B00039-001	CASH TRAY HANDLE
12	42C00013-001	MONITOR SUPPORT CLEAT
13	61D00208-001	MOUNTING BRACKET
14	31-00013-001	19" COLOR MONITOR
15	04-00037-002	LOCK ASSEMBLY
*16	44-00001-001	WHEEL ASSEMBLY
*17	07-00041-001	HEAT SINK ASSEMBLY
*18	08-00007-002	REGULATOR BOARD
*19	18-00003-001	TRANSFORMER
*20	09-00226-001	INTERFACE HARNESS

* Item not shown on drawing.

CABINET ASSEMBLY FRONT VIEW
FIGURE 17



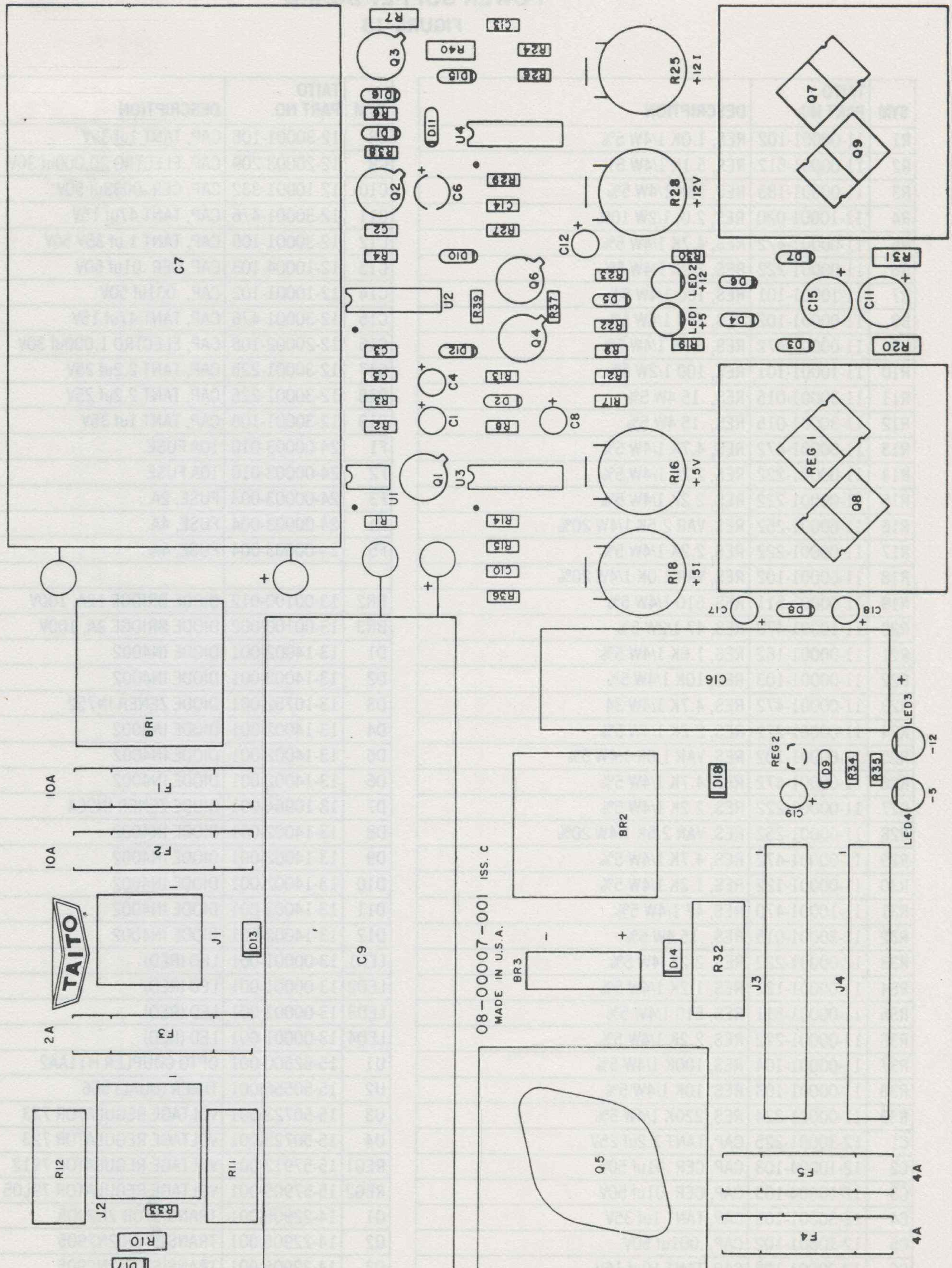
CABINET ASSEMBLY FRONT VIEW
FIGURE 17

ITEM	TAITO PART NUMBER	DESCRIPTION
1	07M00055-002	INCANDESCENT PANEL
2	63B00006-003	"U" CHANNEL BRACKET
3	47-00012-020	MARQUEE
4	61C00115-001	MARQUEE RETAINING BRACKET
5	47-00016-010	COVERGLASS
6	63-00053-001	SHROUD
7	07-00285-001	COIN DOOR
8	61B00113-001	SWITCH BRACKET
9	07-00118-001	SERVICE SWITCH ASSEMBLY
10	29-00022-001	SLIDE, CENTER RETURN SWITCH
11	59-00008-001	LATCHING CLAMP
12	63B00002-004	"T" MOLDING
13	29A00023-001	POWER ON/OFF SWITCH
*	09-00227-001	MAIN HARNESS CABLE
*	09-00043-001	SPEAKER CABLE
14	41-00024-004	FINISHED CABINET
15	07-00345-001	CONTROL PANEL ASSEMBLY
16	27-00006-001	#47 BULB
17	26-00008-001	LAMP CLIP-ON MINI BAY

* Item not shown on drawing.

POWER SUPPLY COMPONENT LAYOUT

FIGURE 18



REVISIONS

POWER SUPPLY BOARD

FIGURE 18

SYM	TAITO PART NO.	DESCRIPTION
R1	11-00001-102	RES, 1.0K 1/4W 5%
R2	11-00001-512	RES, 5.1K 1/4W 5%
R3	11-00001-183	RES, 18K 1/4W 5%
R4	11-10001-020	RES, 2.0, 1/2W 10%
R5	11-00001-472	RES, 4.7K 1/4W 5%
R6	11-00001-222	RES, 2.2K 1/4W 5%
R7	11-10001-101	RES, 100 1/4W 5%
R8	11-00001-102	RES, 10K 1/4W 5%
R9	11-00001-472	RES, 4.7K 1/4W 5%
R10	11-10001-101	RES, 100 1/2W 5%
R11	11-30001-015	RES, .15 4W 5%
R12	11-30001-015	RES, .15 4W 5%
R13	11-00001-472	RES, 4.7K 1/4W 5%
R14	11-00001-222	RES, 2.2K 1/4W 5%
R15	11-00001-222	RES, 2.2K 1/4W 5%
R16	11-60001-252	RES, VAR 2.5K 1/4W 20%
R17	11-00001-222	RES, 2.2K 1/4W 5%
R18	11-60001-102	RES, VAR 1.0K 1/4W 20%
R19	11-00001-511	RES, 510 1/4W 5%
R20	11-10001-470	RES, 47 1/2W 5%
R21	11-00001-162	RES, 1.6K 1/4W 5%
R22	11-00001-103	RES, 10K 1/4W 5%
R23	11-00001-472	RES, 4.7K 1/4W 34
R24	11-00001-222	RES, 2.2K 1/4W 5%
R25	11-60001-102	RES, VAR 1.0K 1/4W 5%
R26	11-00001-472	RES, 4.7K 1/4W 5%
R27	11-00001-222	RES, 2.2K 1/4W 5%
R28	11-60001-252	RES, VAR 2.5K 1/4W 20%
R29	11-00001-472	RES, 4.7K 1/4W 5%
R30	11-00001-122	RES, 1.2K 1/4W 5%
R31	11-10001-470	RES, 47 1/4W 5%
R32	11-30001-015	RES, .15 4W 5%
R33	11-00001-222	RES, 2.2K /4W 5%
R34	11-00001-122	RES, 1.2K 1/4W 5%
R35	11-00001-511	RES, 510 1/4W 5%
R36	11-00001-222	RES, 2.2K 1/4W 5%
R37	11-00001-104	RES, 100K 1/4W 5%
R38	11-00001-103	RES, 10K 1/4W 5%
R39	11-00001-224	RES, 220K 1/4W 5%
C1	12-30001-225	CAP, TANT 2.2uf 25V
C2	12-10004-103	CAP, CER .01uf 50V
C3	12-10004-103	CAP, CER .01uf 50V
C4	12-30001-105	CAP, TANT 1uf 35V
C5	12-10001-102	CAP, .001uf 50V
C6	12-30001-106	CAP, TANT 10uf 16V
C7	12-20003-509	CAP, ELECTRO 50,000uf

SYM	TAITO PART NO.	DESCRIPTION
C8	12-30001-105	CAP, TANT 1uf 35V
C9	12-20003-209	CAP, ELECTRO 20,000uf 30V
C10	12-10001-332	CAP, CER .0033uf 50V
C11	12-30001-476	CAP, TANT 47uf 15V
C12	12-30001-105	CAP, TANT 1.uf 35V 50V
C13	12-10004-103	CAP, CER .01uf 50V
C14	12-10001-102	CAP, .001uf 50V
C15	12-30001-476	CAP, TANT 47uf 15V
C16	12-20002-108	CAP, ELECTRO 1,000uf 30V
C17	12-30001-225	CAP, TANT 2.2uf 25V
C18	12-30001-225	CAP, TANT 2.2uf 25V
C19	12-30001-105	CAP, TANT 1uf 35V
F1	24-00003-010	10A FUSE
F2	24-00003-010	10A FUSE
F3	24-00003-003	FUSE, 2A
F4	24-00003-004	FUSE, 4A
F5	24-00003-004	FUSE, 4A
BR2	13-00100-012	DIODE BRIDGE 12A, 100V
BR3	13-00100-002	DIODE BRIDGE 2A, 100V
D1	13-14002-001	DIODE IN4002
D2	13-14002-001	DIODE IN4002
D3	13-10752-001	DIODE ZENER IN752
D4	13-14002-001	DIODE IN4002
D5	13-14002-001	DIODE IN4002
D6	13-14002-001	DIODE IN4002
D7	13-10964-001	DIODE ZENER IN964
D8	13-14002-001	DIODE IN4002
D9	13-14002-001	DIODE IN4002
D10	13-14002-001	DIODE IN4002
D11	13-14002-001	DIODE IN4002
D12	13-14002-001	DIODE IN4002
LED1	13-00001-001	LED (RED)
LED2	13-00001-001	LED (RED)
LED3	13-00001-001	LED (RED)
LED4	13-00001-001	LED (RED)
U1	15-62500-001	OPTO COUPLER H11AA2
U2	15-50556-001	TIMER (DUAL) 556
U3	15-50723-001	VOLTAGE REGULATOR 723
U4	15-50723-001	VOLTAGE REGULATOR 723
REG1	15-57912-001	VOLTAGE REGULATOR 7912
REG2	15-57905-001	VOLTAGE REGULATOR 79L05
Q1	14-22905-001	TRANSISTOR 2N2905
Q2	14-22905-001	TRANSISTOR 2N2905
Q3	14-22905-001	TRANSISTOR 2N2905
Q4	14-22905-001	TRANSISTOR 2N2905

POWER SUPPLY BOARD

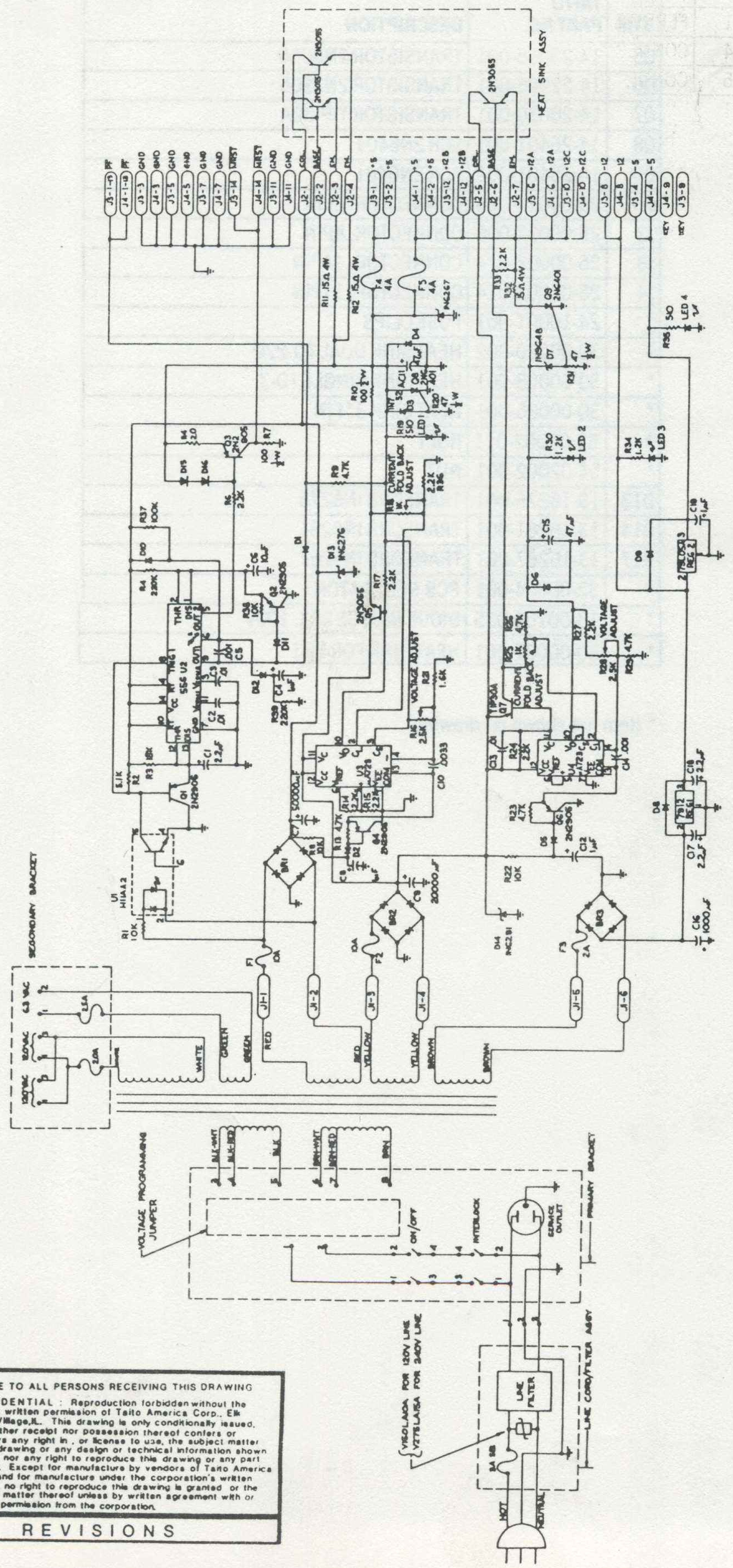
SYM	TAITO PART NO.	DESCRIPTION
Q5	14-23055-001	TRANSISTOR 2N3055
Q6	14-22905-001	TRANSISTOR 2N2905
Q7	14-20030-001	TRANSISTOR TIP-30A
Q8	14-26401-001	SCR 2N6401
Q9	14-26401-001	SCR 2N6401
J1	25-00022-006	CONNECTOR, 6PIN
J2	25-00022-008	CONNECTOR, 8PIN
J3	25-00002-014	CONNECTOR, 14PIN
J4	25-00002-014	CONNECTOR, 14PIN
*	24-10001-001	FUSE CLIPS
*	30-00220-002	HEAT SINK DUAL TO-220
*	30-00003-001	HEAT SINK SINGLE TO-3
*	30-00005-001	HEAT SINK 3" FIN
*	51-02002-011	BOLT
*	54-02002-001	NUT
D13	13-16276-001	TRANSORB IN6276
D14	13-16281-001	TRANSORB IN6281
D17	13-16267-001	TRANSORB IN6267
*	32-00004-001	PCB REGULATOR
*	13-00100-025	DIODE BRIDGE 25A, 100V
*	30-00007-001	HEAT SINK FOR BR1

* Item not shown on drawing.

POWER SUPPLY SCHEMATIC 1 of 1

FIGURE 19

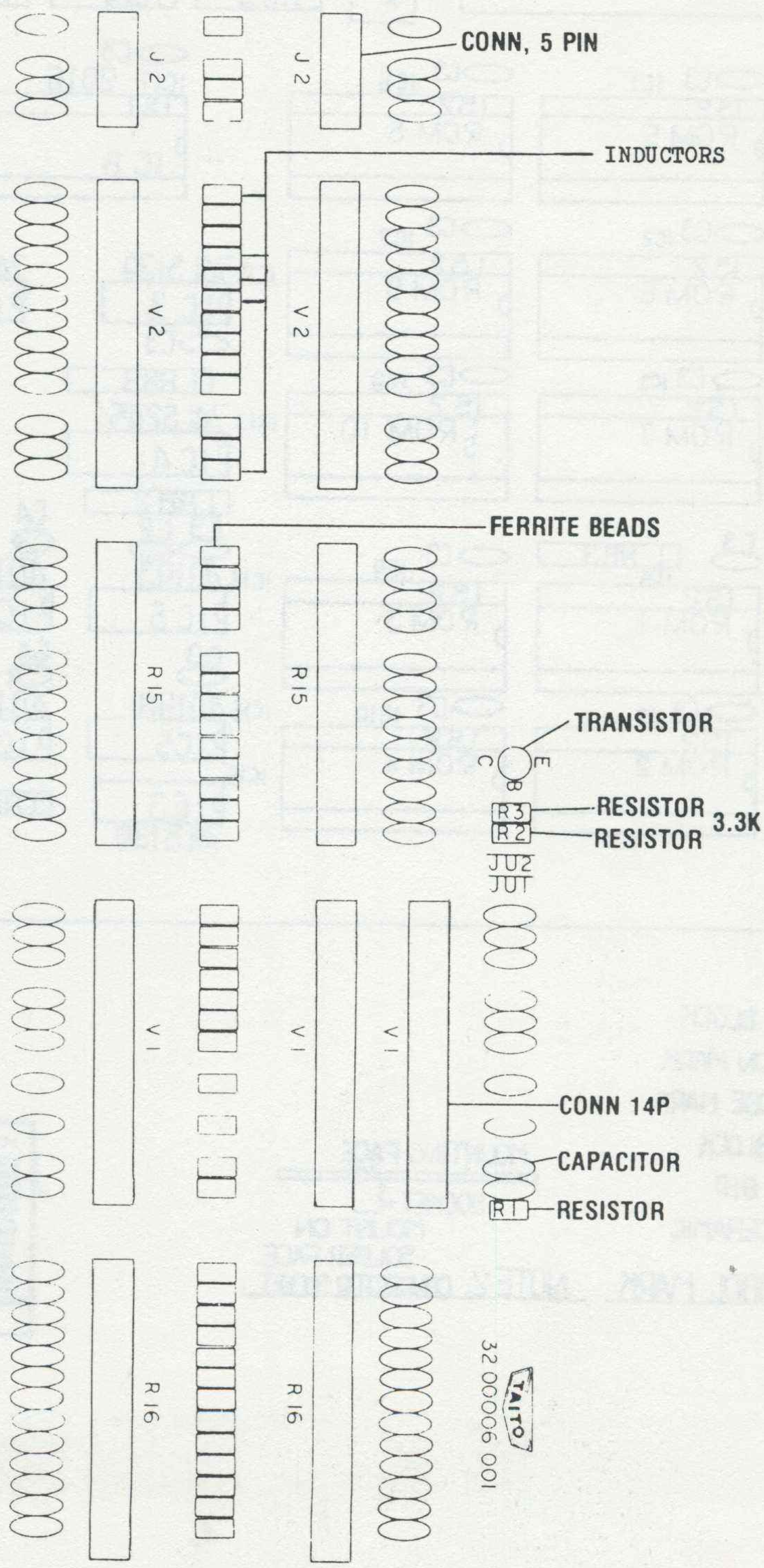
BR1 is added externally.



REVISIONS

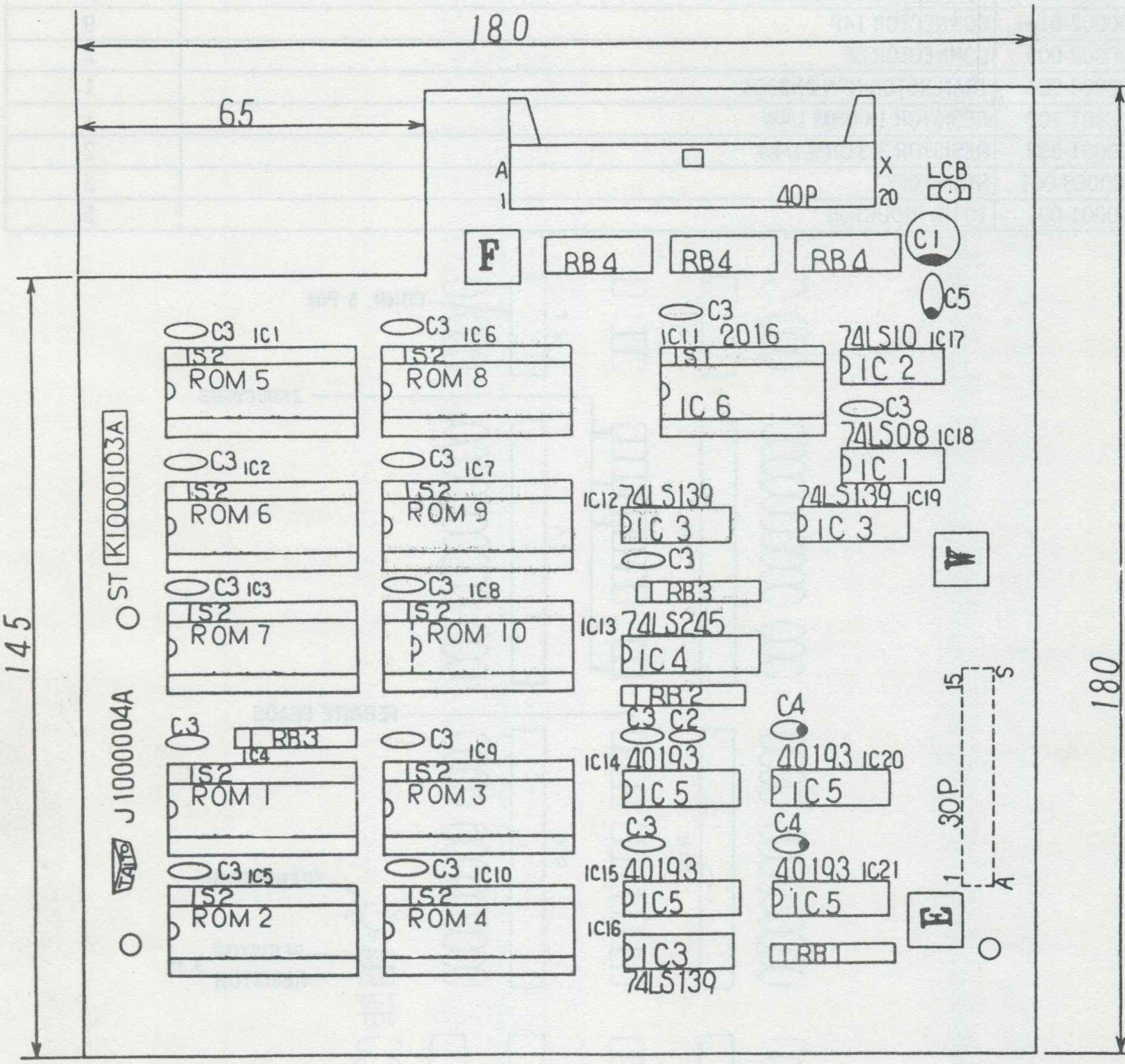
FILTER BOARD
FIGURE 20

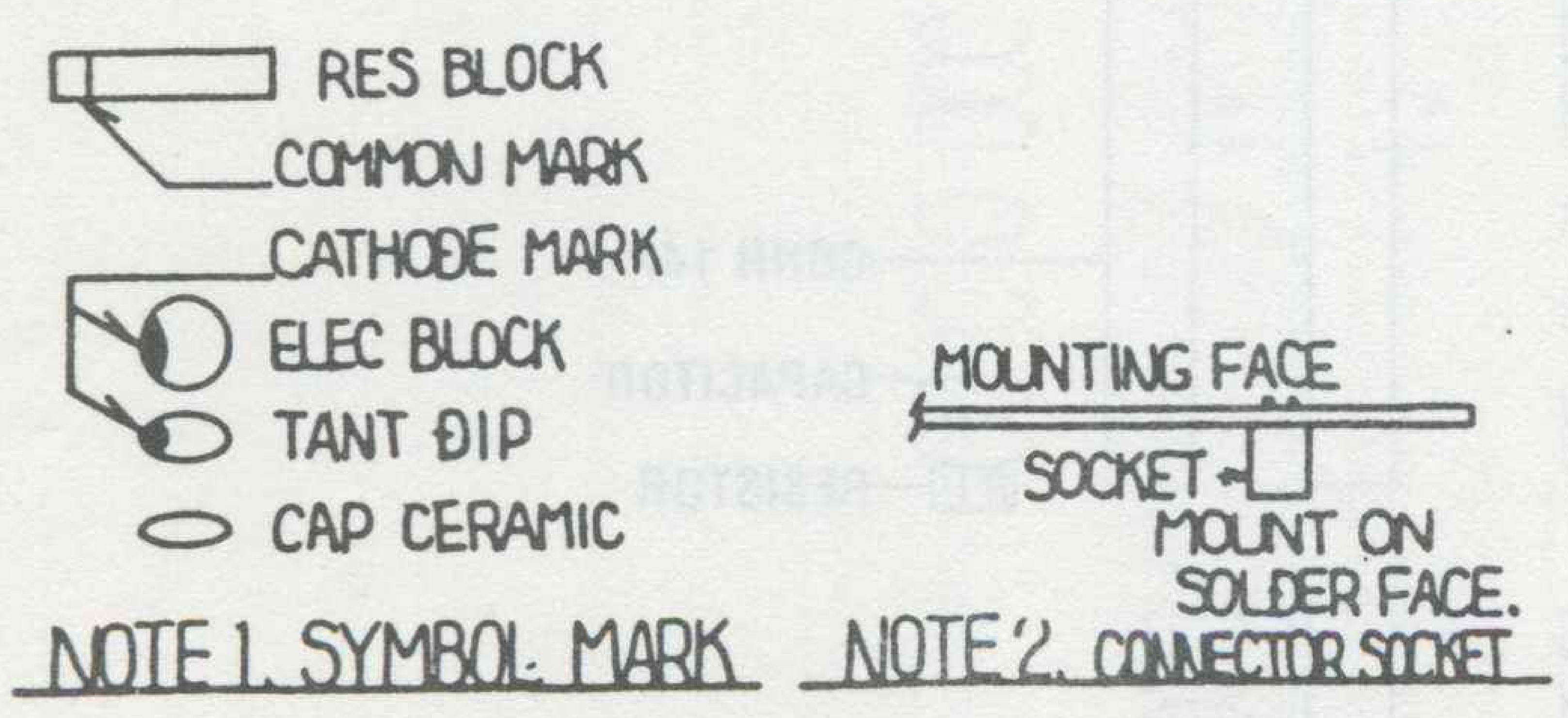
ITEM	TAITO PART NO.	DESCRIPTION	QUANITY
1	12-10001-471	CAP, 470PF ± 10% AXIAL LEAD	74
2	17-00001-001	FERRITE BEAD ASSEMBLY	37
3	25-00002-014	CONNECTOR 14P	9
4	25-00002-005	CONNECTOR 5P	2
5	14-23904-001	TRANSISTOR NPN 2N3904	1
6	11-00001-102	RESISTOR 1K OHM 1/4W	1
7	11-00001-332	RESISTOR 3.3 OHM 1/4W	2
8	63B00068-001	STAND OFF	6
9	17-10001-001	10 UH INDUCTOR	5



ROM BOARD COMPONENT LAYOUT
(4 BOARD SYSTEM)

FIGURE 21



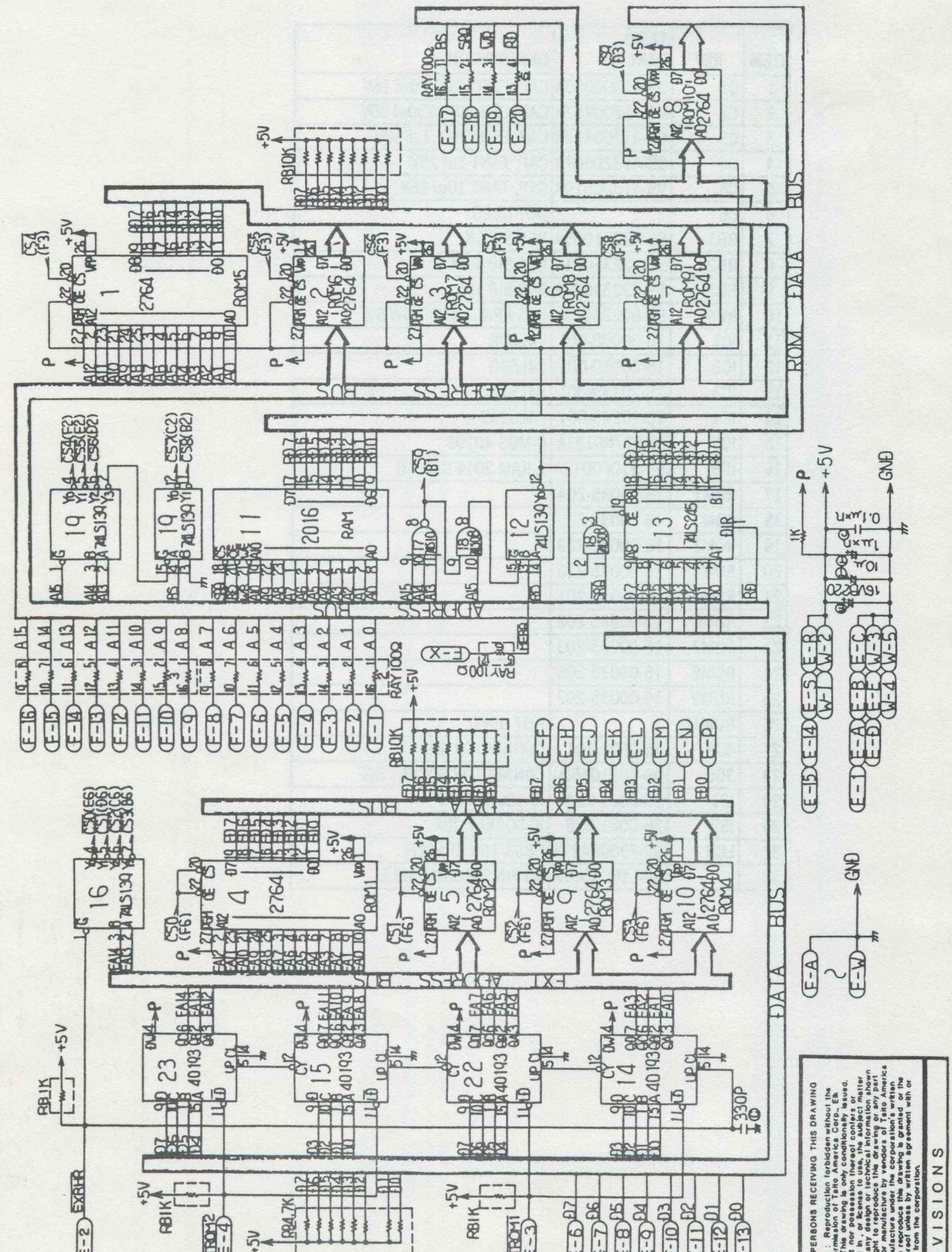


REVISIONS

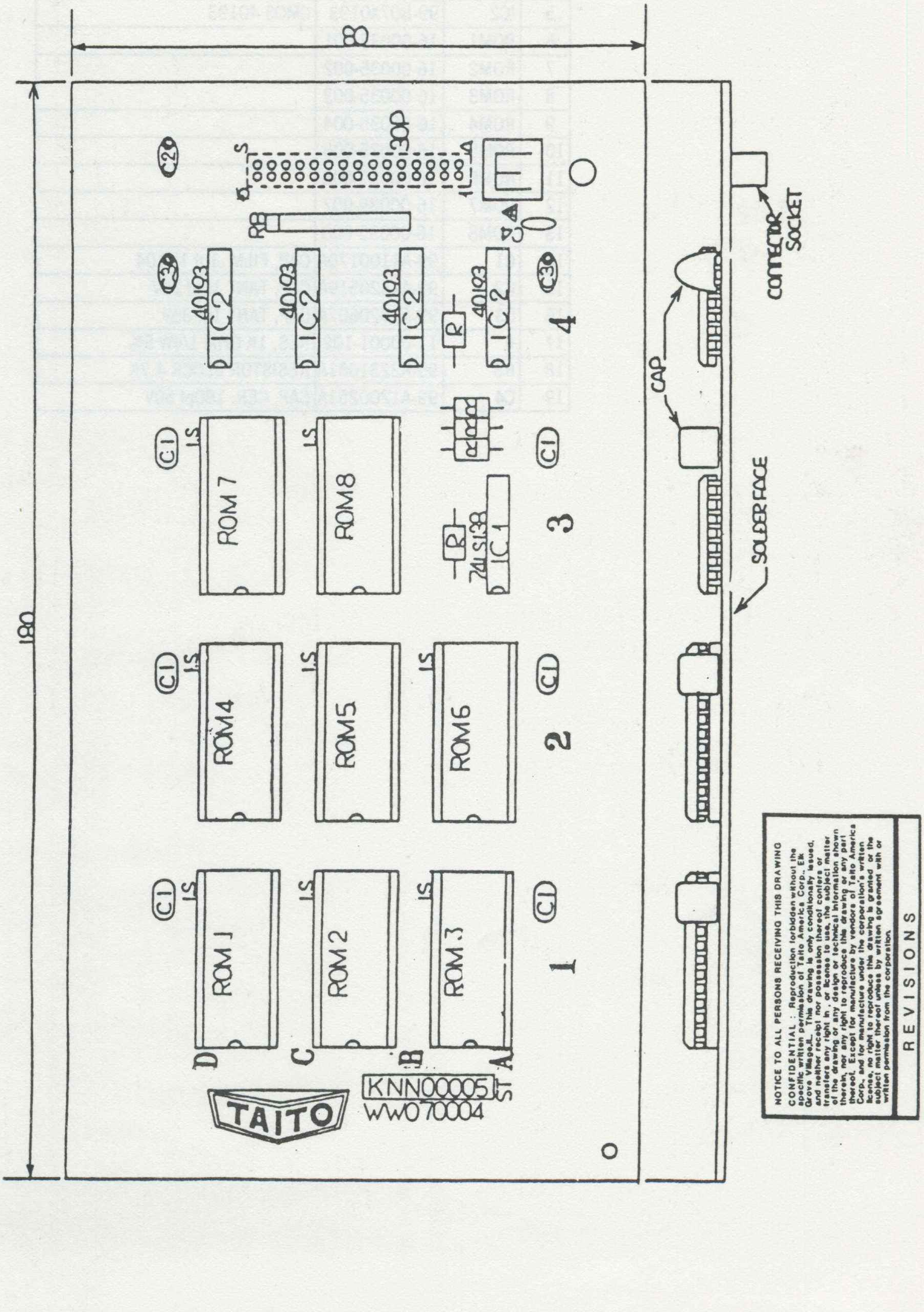
ROM BOARD FOUR BOARD SYSTEM
FIGURE 21

ITEM	REF	TAITO PART NO.	DESCRIPTION
1	C1	99-A1000035A	CAP, ELECTRO 220uf 16V
2	C2	99-A1200257A	CAP, CER DISC 330pf 50V
3	C3	99-A1200317A	CAP, CER DISC .1uf 50V
4	C4	99-A1320507A	CAP, TANT 1uf 25V
5	C5	99-A1320519A	CAP, TANT 10uf 25V
6	C6		NOT USED
7	RB1	99-A2231065A	RES SIP 1K
8	RB2	99-A2231081A	RES SIP 4.7K
9	RB3	99-A2231089A	RES SIP 10K
10	RB4	99-B2239002A	RES ARRAY 100 1/4W 5%
11	IC1	15-20008-001	74LS08
12	IC2	15-20010-001	74LS10
13	IC3	15-20139-001	74LS139
14	IC4	15-20245-001	74LS245
15	IC5	99-B07N0193A	C-MOS 40193
16	IC6	99-B10F0019A	S-RAM 2016 C,D,F,G
17	ROM1	16-00035-204	
18	ROM2	16-00035-205	
19	ROM3	16-00035-209	
20	ROM4	16-00035-210	
21	ROM5	16-00035-201	
22	ROM6	16-00035-202	
23	ROM7	16-00035-203	
24	ROM8	16-00035-206	
25	ROM9	16-00035-207	
26	ROM10		NOT USED
27	40P	25-0001-101	CONNECTOR 40P
28	30P	99-C0510552A	CONNECTOR SOCKET 30P
29	IS1	26-0001-024	IC SOCKET 24P
30	IS2	26-0001-028	IC SOCKET 28P
31	LCB	99-F9000439A	CBSS-10N SPACER
32		99-L5000001A	40 PIN RIBBON CABLE

ROM PC BOARD SCHEMATIC 1 of 1
(4 BOARD SYSTEM)
FIGURE 21



ROM BOARD COMPONENT LAYOUT
(5 BOARD SYSTEM)
FIGURE 22

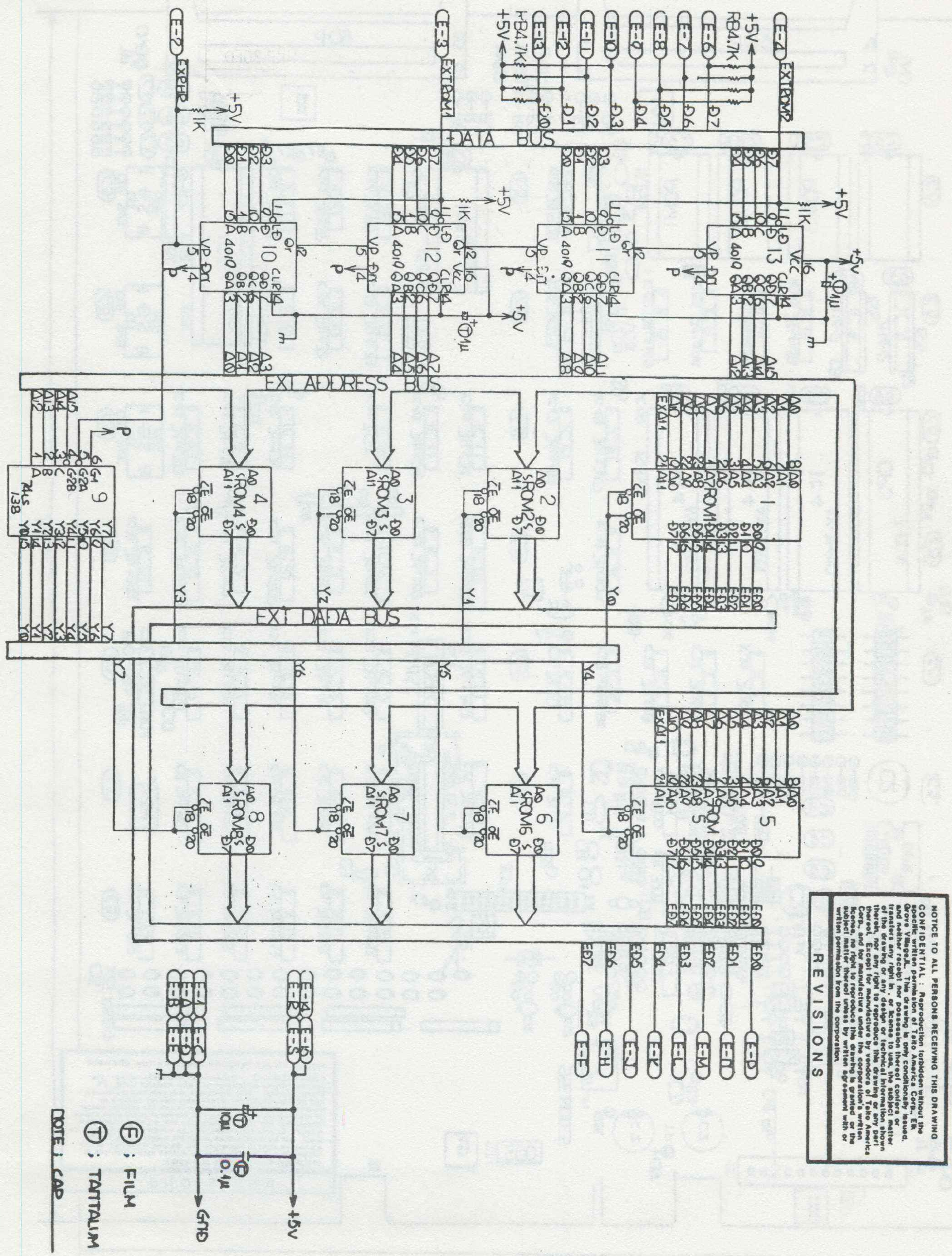


ROM BOARD FIVE BOARD SYSTEM

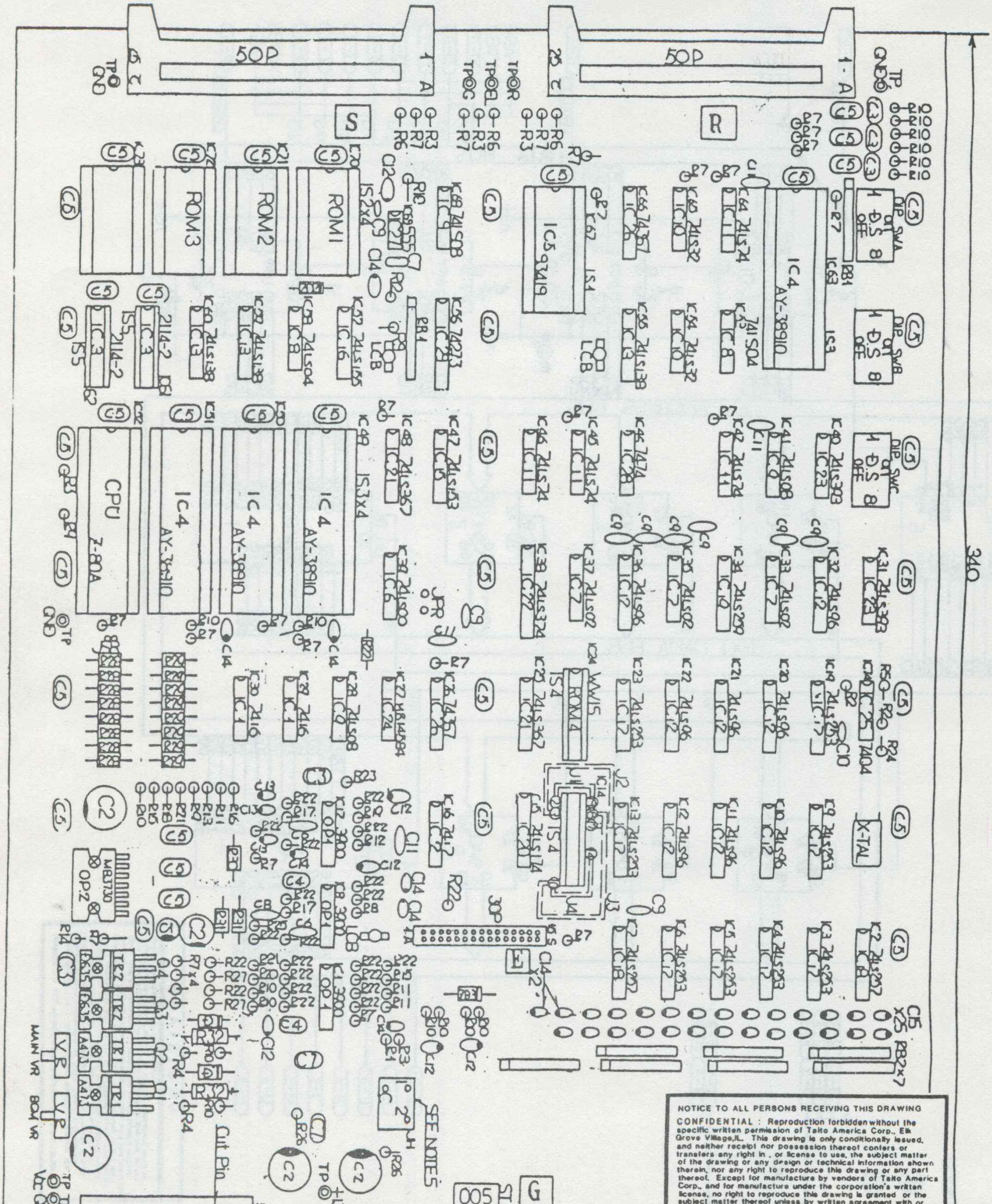
FIGURE 22

ITEM	SYM	TAITO PART NO.	DESCRIPTION
1		99-AA001711	ROM PC BOARD
2	30P	99-AA055161	CONNECTOR SOCKET HKP-30FD
3	1S	26-00001-024	IC SOCKET 24P
4	IC1	15-20138-001	74LS138
5	IC2	99-B07X0193	CMOS 40193
6	ROM1	16-00035-001	
7	ROM2	16-00035-002	
8	ROM3	16-00035-003	
9	ROM4	16-00035-004	
10	ROM5	16-00035-005	
11	ROM6	16-00035-006	
12	ROM7	16-00035-007	
13	ROM8	16-00035-008	
14	C1	99-A1100170A	CAP, FILM .1uf 1H104
15	C2	99-A1320519A	CAP, TANT 10uf 25V
16	C3	99-A1320607A	CAP, TANT 1uf 35V
17	R	11-00001-102	RES, 1K OHM 1/4W 5%
18	RB	99-A2231081A	RESISTOR BLOCK 4.7K
19	C4	99-A1200251A	CAP, CER. 180pf 50V

ROM PC BOARD SCHEMATIC 1 of 1
(5 BOARD SYSTEM)
FIGURE 22



GAME BOARD COMPONENT LAYOUT
(4 and 5 BOARD SYSTEMS)
FIGURE 23



GAME BOARD FOUR AND FIVE BOARD SYSTEMS

FIGURE 23

ITEM	SYM	TAITO PART NO.	DESCRIPTION
1		99-AA017808	GAME PCB
2	IS5	26-00001-018	IC SOCKET 18P
3	DS	29-00001-008	DIP SWITCH 8 P
4	12P	99-C0500011A	CONNECTOR 12 PIN
5	30P	99-C050551A	CONNECTOR 30 PIN
6	IS1	26-00001-028	IC SOCKET 28P
7	50P	25-00001-101	CONNECTOR RT. ANG. 50 P
8	IS2	26-00001-024	IC SOCKET 24P
9	IS3	26-00001-040	IC SOCKET 40P
10	IS4	26-00001-020	IC SOCKET 20P
11	TP	99-C0600403A	TEST POINT
12	ICB		STAND-OFF
13	TR1	99-A0100012A	TRANSISTOR 25A423
14	TR7	99-A0100143A	TRANSISTOR 25D635
15	OP1	15-53900-001	LM3900
16	OP2	99-B17Z0333A	POWER AMP MB3730
17	IC1	15-30016-001	7416
18	IC2	15-30017-001	7417
19	IC3	15-10003-001	RAM 2114-2
20	IC4	15-60006-001	SOUND IC AY-8910
21	IC5	99-B11J0002A	TTL RAM 93410
22	IC6	15-20000-001	74LS00
23	IC7	15-20002-001	74LS02
24	IC8	15-20004-001	74LS04
25	IC9	15-20008-001	74LS08
26	IC10	99-B01A0032A	74LS32 (TI ONLY)
27	IC11	15-20074-001	74LS74
28	IC12	15-20096-001	74LS96
29	IC14		NOT USED
30	IC13	15-20138-001	74LS138
31	IC15	15-20153-001	74LS153
32	IC16	15-20155-001	74LS155
33	IC17	15-20253-001	74LS253
34	IC18	15-20257-001	74LS257
35	IC19	15-20259-001	74LS259
36	IC20	15-20174-001	74LS174
37	IC21	15-20367-001	74LS367
38	IC22	15-20374-001	74LS374
39	IC23	15-20393-001	74LS393
40	IC24	99-B07C0584A	CMOS MB14584
41	IC25	15-30004-001	7404
42	IC26	15-30367-001	74367
43	IC27	15-50555-001	Timer 555
44	IC28	15-30074-001	7474
45	IC29	15-30273-001	74273
46	CPU	15-00015-001	CPU Z-80A

GAME BOARD FOUR AND FIVE BOARD SYSTEMS

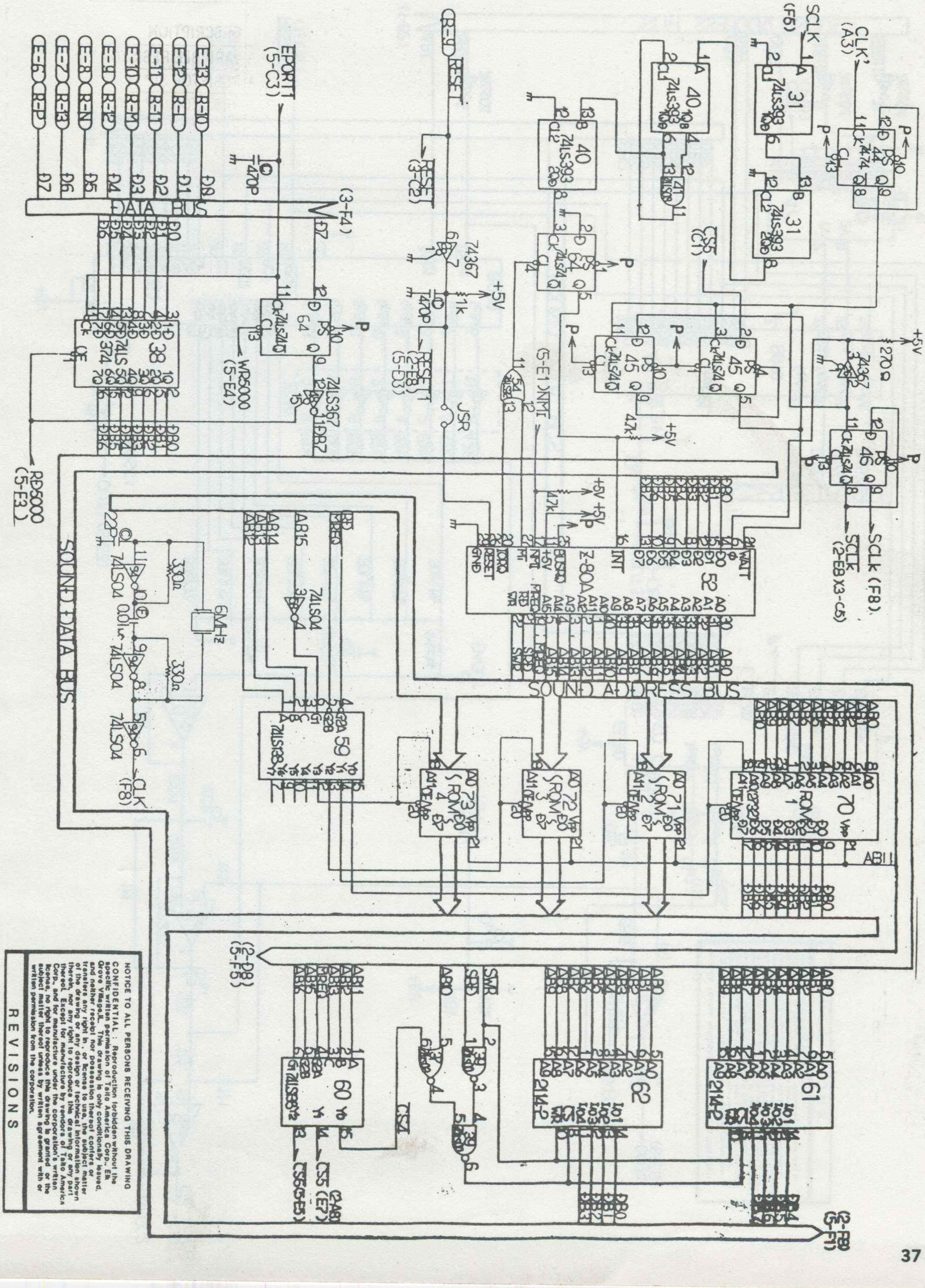
FIGURE 23

ITEM	SYM	TAITO PART NO.	DESCRIPTION
47	C1	99-A1000123A	CAP, ELECTRO 22uf 16V
48	C2	99-A1000135A	CAP, ELECTRO 220uf 16V
49	C3	99-A1100147A	CAP, FILM .01uf 50V
50	C4	99-A1100197A	CAP, FILM .2uf 50V
51	C5	99-A1100170A	CAP, FILM .1uf 50V
52	C6	99-A1200237A	CAP, CER DISC 47pf 50V
53	C7	99-A1100162A	CAP, FILM .047uf 50V
54	C8	99-A1200249A	CAP, CER DISC 150pf 50V
55	C9	99-A1005825A	CAP, CER DISC 180pf 50V
56	C10	99-A1200229A	CAP, CER DISC 22pf 50V
57	C11	99-A1200261A	CAP, CER DISC 470pf 50V
58	C12	99-A1320519A	CAP, TANT. 10uf 25V
59	C13	99-A1320601A	CAP, TANT. .1uf 35V
60	C14	99-A1320607A	CAP, TANT. 1uf 35V
61	C15	99-A1320611A	CAP, TANT. 2.2uf 35V
62	R1	11-00001-101	RES, 100 ohm 1/2W 5%
63	R2	11-00001-221	RES, 220 ohm 1/4W 5%
64	R3	11-00001-271	RES, 270 ohm 1/4W 5%
65	R4	11-00001-331	RES, 330 ohm 1/4W 5%
66	R5	11-00001-561	RES, 560 ohm 1/4W 5%
67	R6	11-00001-471	RES, 470 ohm 1/4W 5%
68	R7	11-00001-102	RES, 1K 1/4W 5%
69	R8	11-00001-392	RES, 3.9K 1/4W 5%
70	R9	11-00001-472	RES, 4.7K 1/4W 5%
71	R10	11-00001-103	RES, 10K 1/4W 5%
72	R11	11-00001-203	RES, 20K 1/4W 5%
73	R12	11-00001-223	RES, 22K 1/4W 5%
74	R13	11-00001-393	RES, 39K 1/4W 5%
75	R14	11-00001-272	RES, 2.7K 1/4W 5%
76	R15	11-00001-823	RES, 82K 1/4W 5%
77	R16	11-00001-154	RES, 150K 1/4W 5%
78	R17	11-00001-274	RES, 270K 1/4W 5%
79	R18	11-00001-334	RES, 330K 1/4W 5%
80	R19	11-00001-394	RES, 390K 1/4W 5%
81	R20	11-00001-474	RES, 470K 1/4W 5%
82	R21	11-00001-684	RES, 680K 1/4W 5%
83	R22	11-00001-105	RES, 1M 1/4W 5%
84	R23	11-00001-470	RES, 47 ohm 1/4W 5%
85	R24	11-00001-182	RES, 1.8K 1/4W 5%
86	R25	11-00001-225	RES, 2.2M 1/4W 5%
87	R26	11-00001-275	RES, 2.7M 1/2W 5%
88	R27	11-00001-202	RES, 2K 1/4W 5%
89	R28	99-A2002361A	RES, 15K 1/4W 1%
90	R29	99-A2002395A	RES, 30K 1/4W 1%
91	R31	11-10001-010	RES, 1 ohm 1/2W 5%
92	R32	99-A2251669A	RES, WW 6 ohm 2W 10%

ITEM	SYM	TAITO PART NO.	DESCRIPTION
93	VR	99-A2102509A	VARIABLE RESISTOR 50K
94	RB1	99-A2231065A	RESISTOR SIP 1K
95	RB2	99-A2231090A	RESISTOR SIP 100/10K
96	RRC		RES,CAP SIP 100/10K/2.2uf
97	ZD1		NOT USED
98	ZD2	99-A0210034A	ZENER DIODE 2.7V
99	ZD3	99-A0210045A	ZENER DIODE 9V
100	ROM1	16-00035-070	
101	ROM2	16-00035-071	EPROM BA3-10
102	ROM3	16-00035-072	
103	ROM4		NOT USED
104	X-TAL	99-A9000066A	X-TAL 6MHz

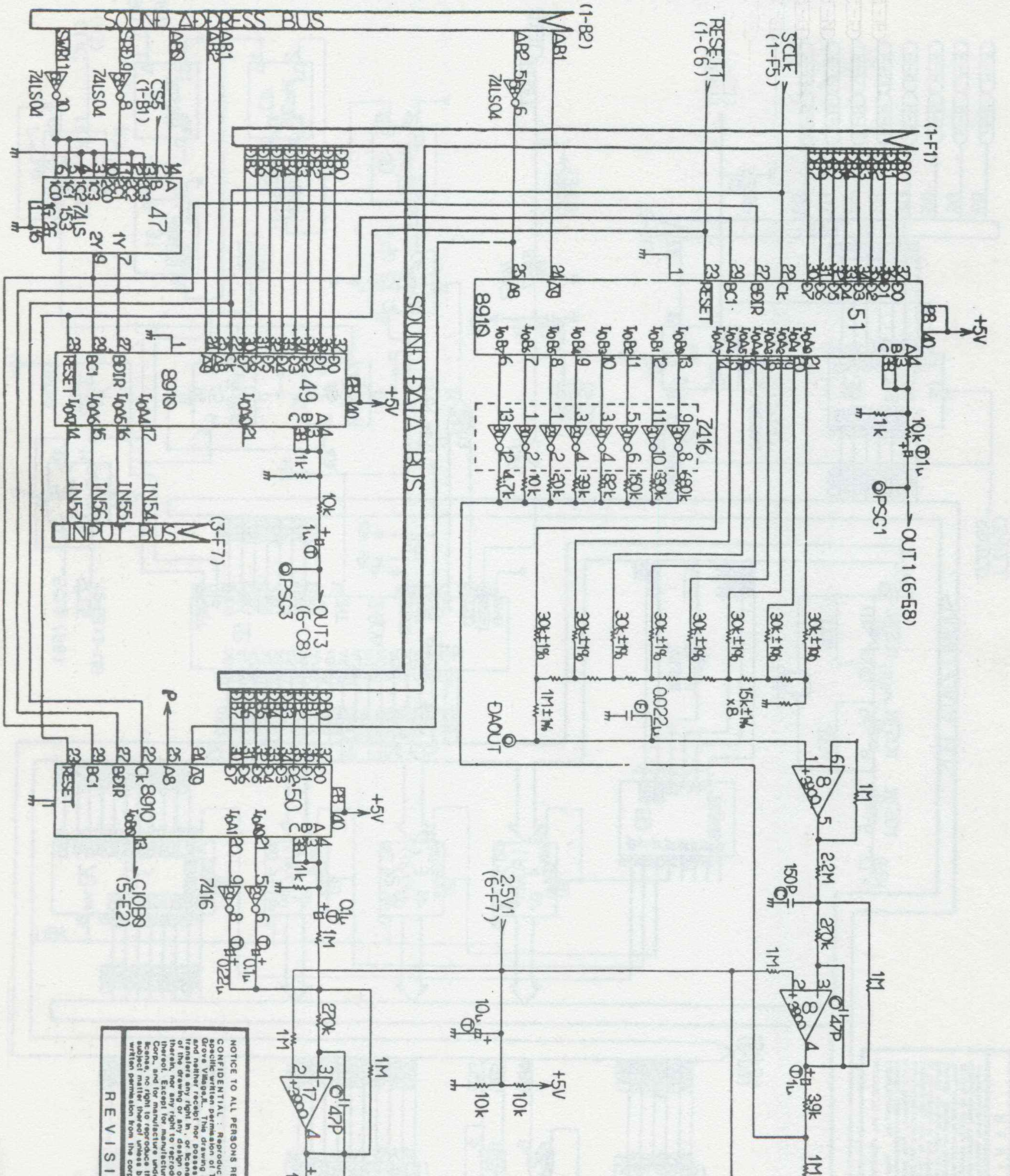
GAME PC BOARD SCHEMATIC 1 of 7

FIGURE 23



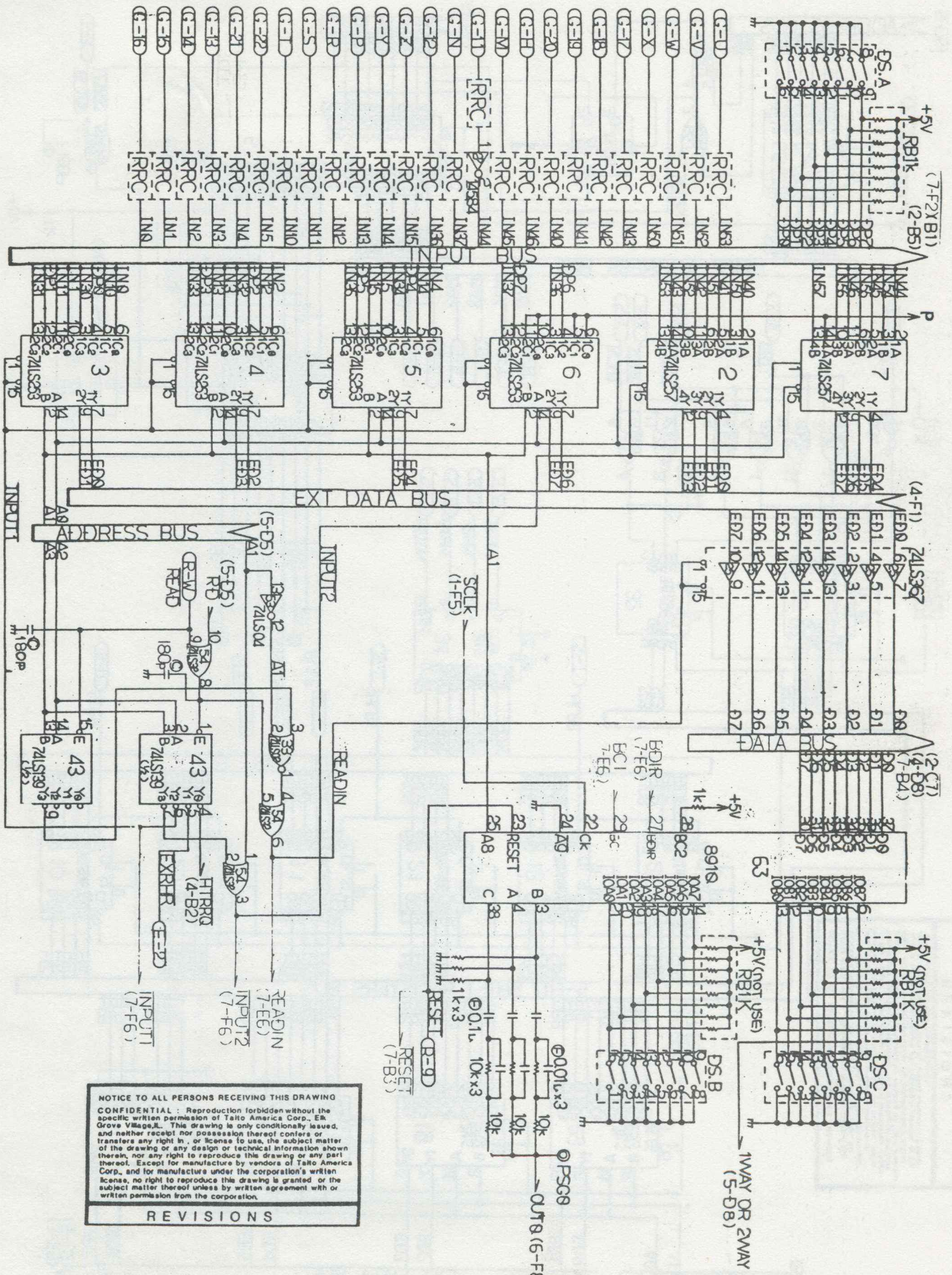
GAME PC BOARD SCHEMATIC 2 of 7

FIGURE 23



GAME PC BOARD SCHEMATIC 3 of 7

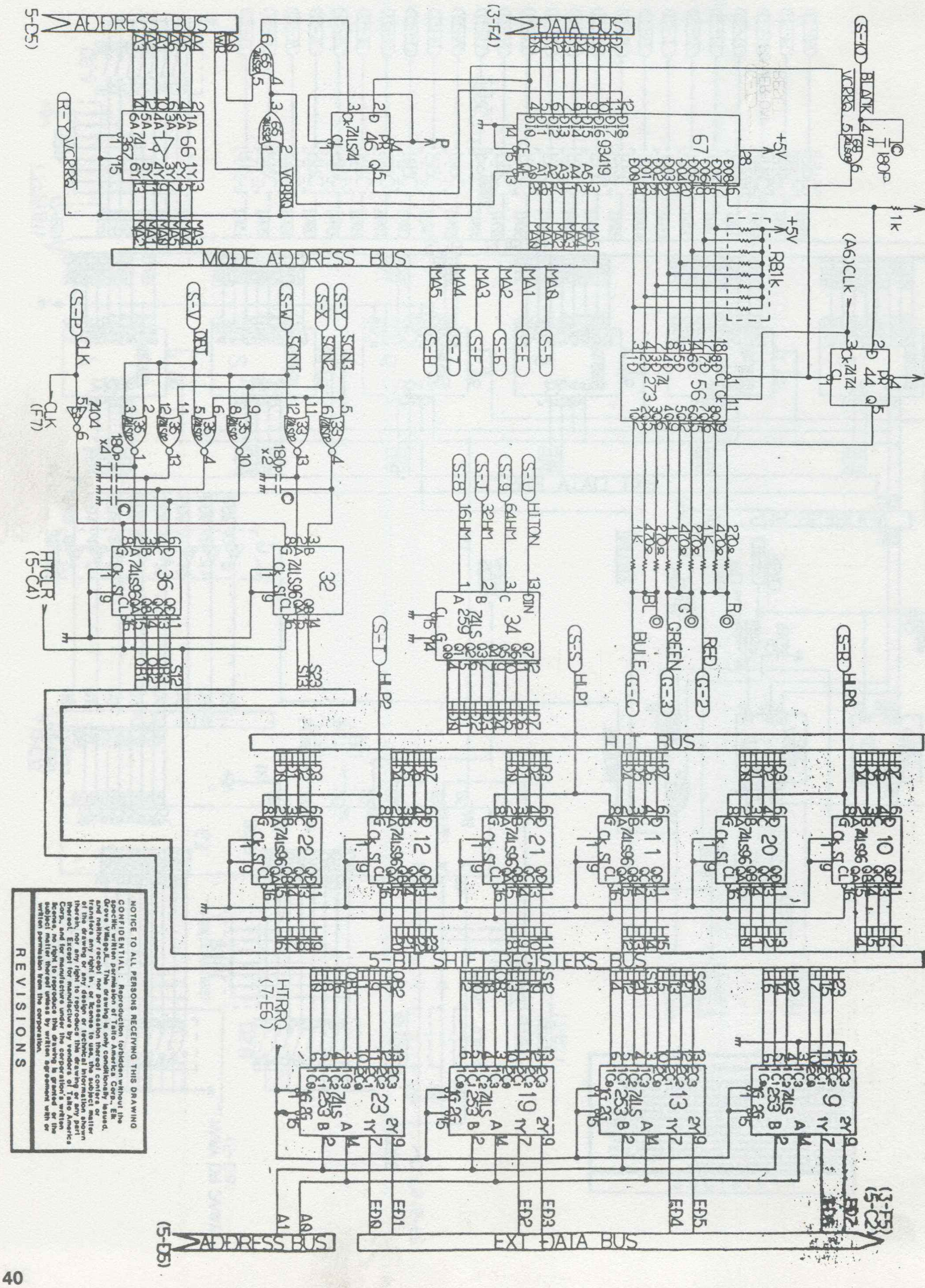
FIGURE 23



REVISIONS

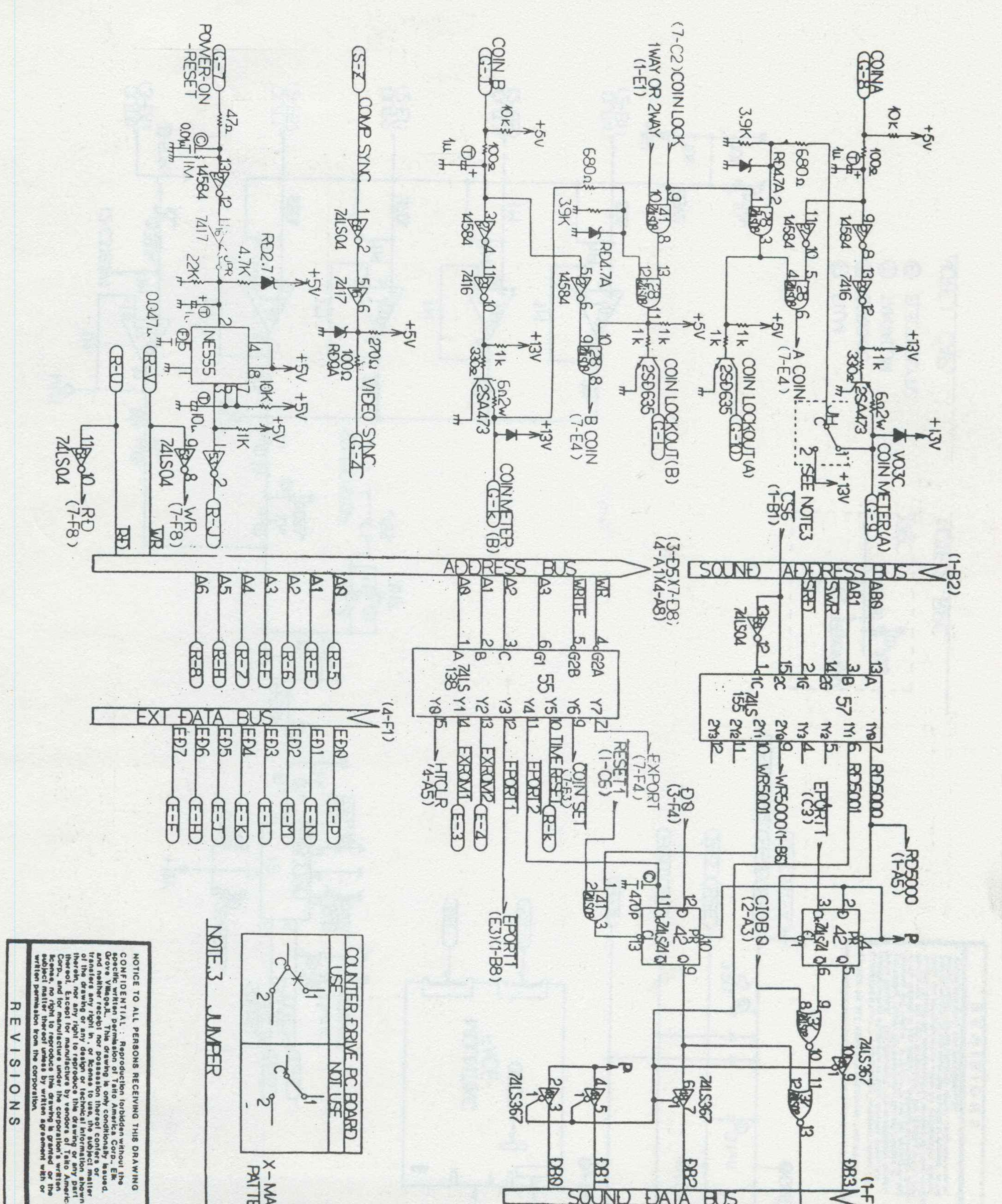
GAME PC BOARD SCHEMATIC 4 of 7

FIGURE 23



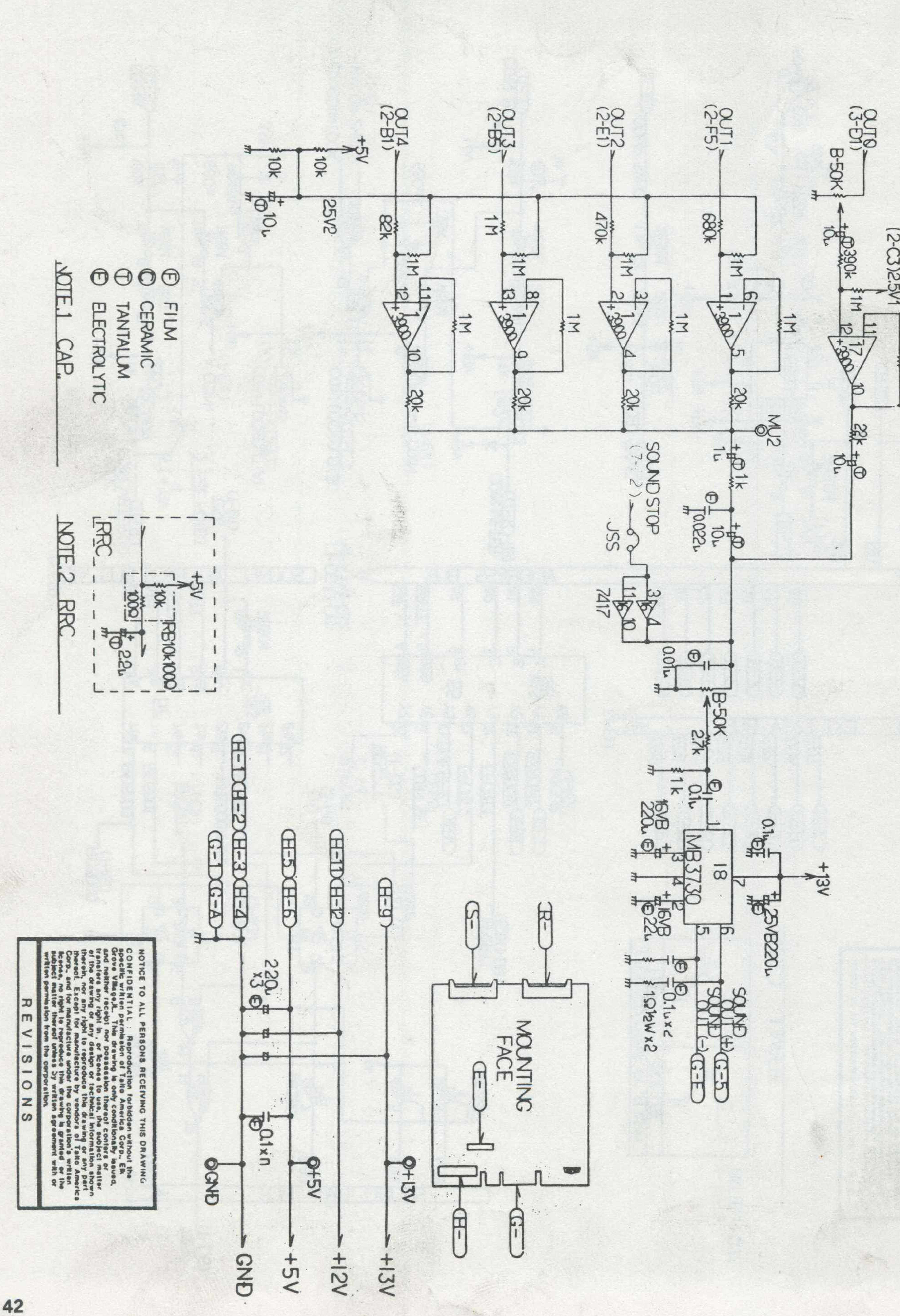
GAME PC BOARD SCHEMATIC 5 of 7

FIGURE 23



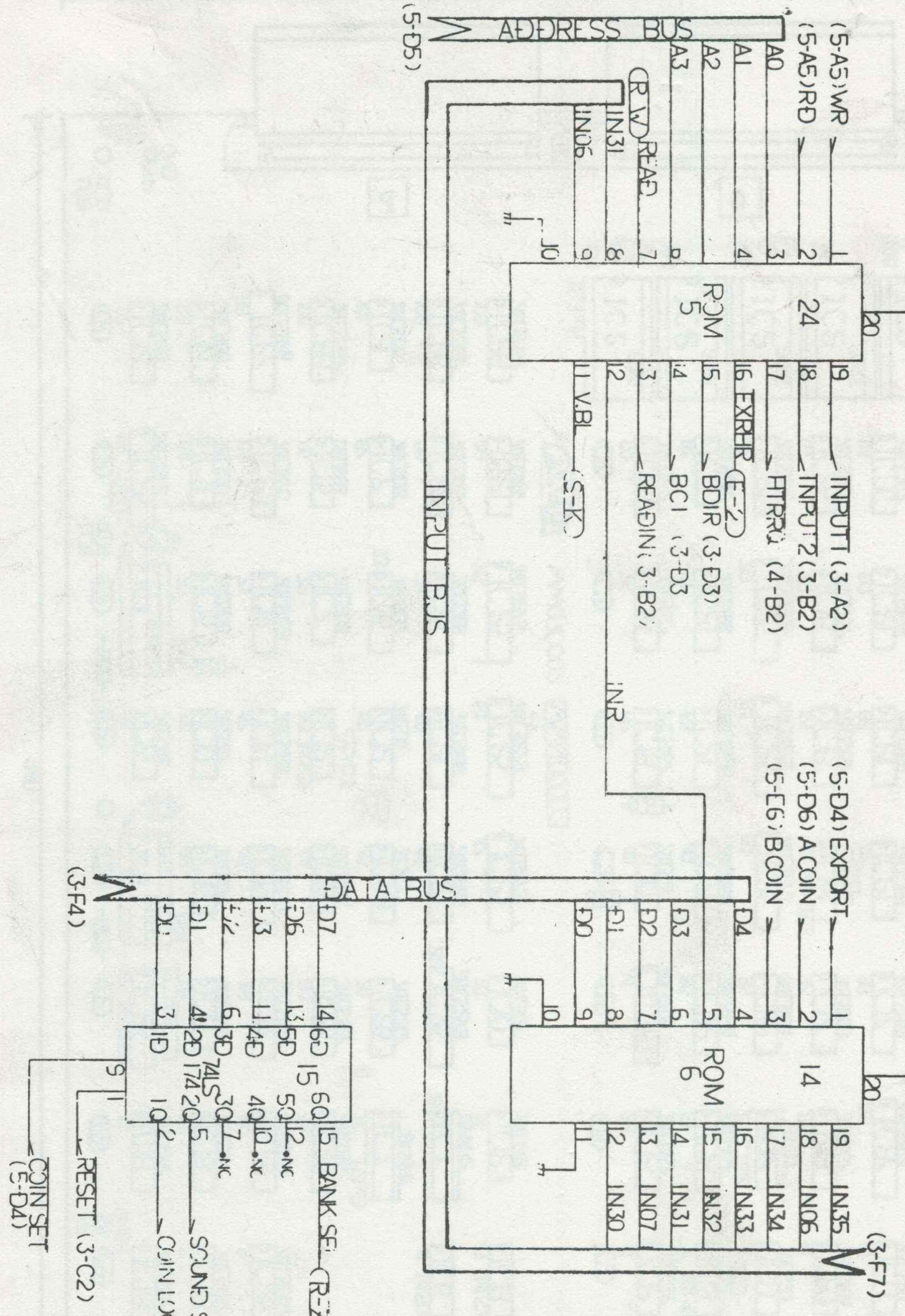
GAME PC BOARD SCHEMATIC 6 of 7

FIGURE 23



GAME PC BOARD SCHEMATIC 7 of 7

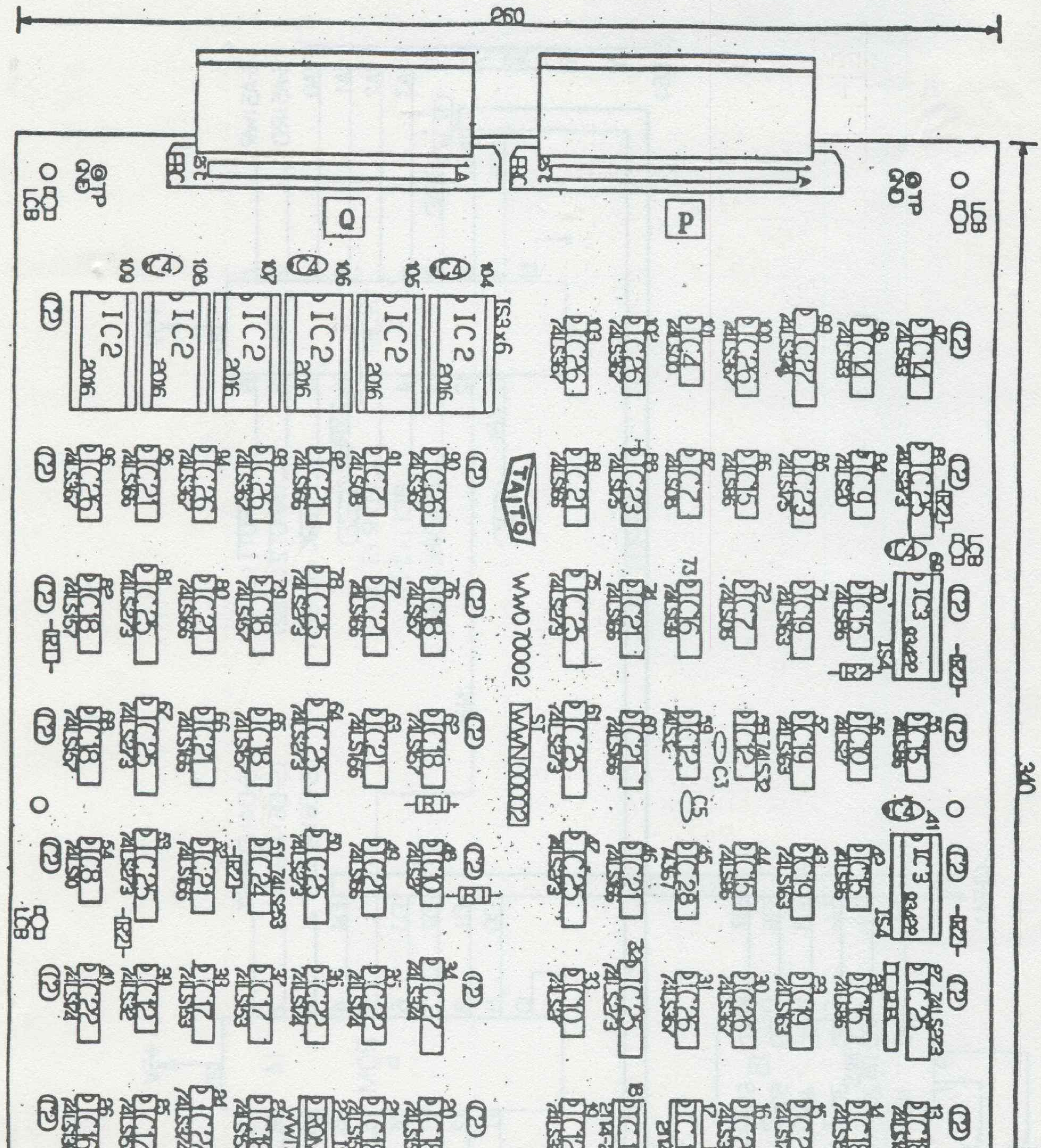
FIGURE 23



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VIDEO BOARD COMPONENT LAYOUT
(4 and 5 BOARD SYSTEMS)
FIGURE 24



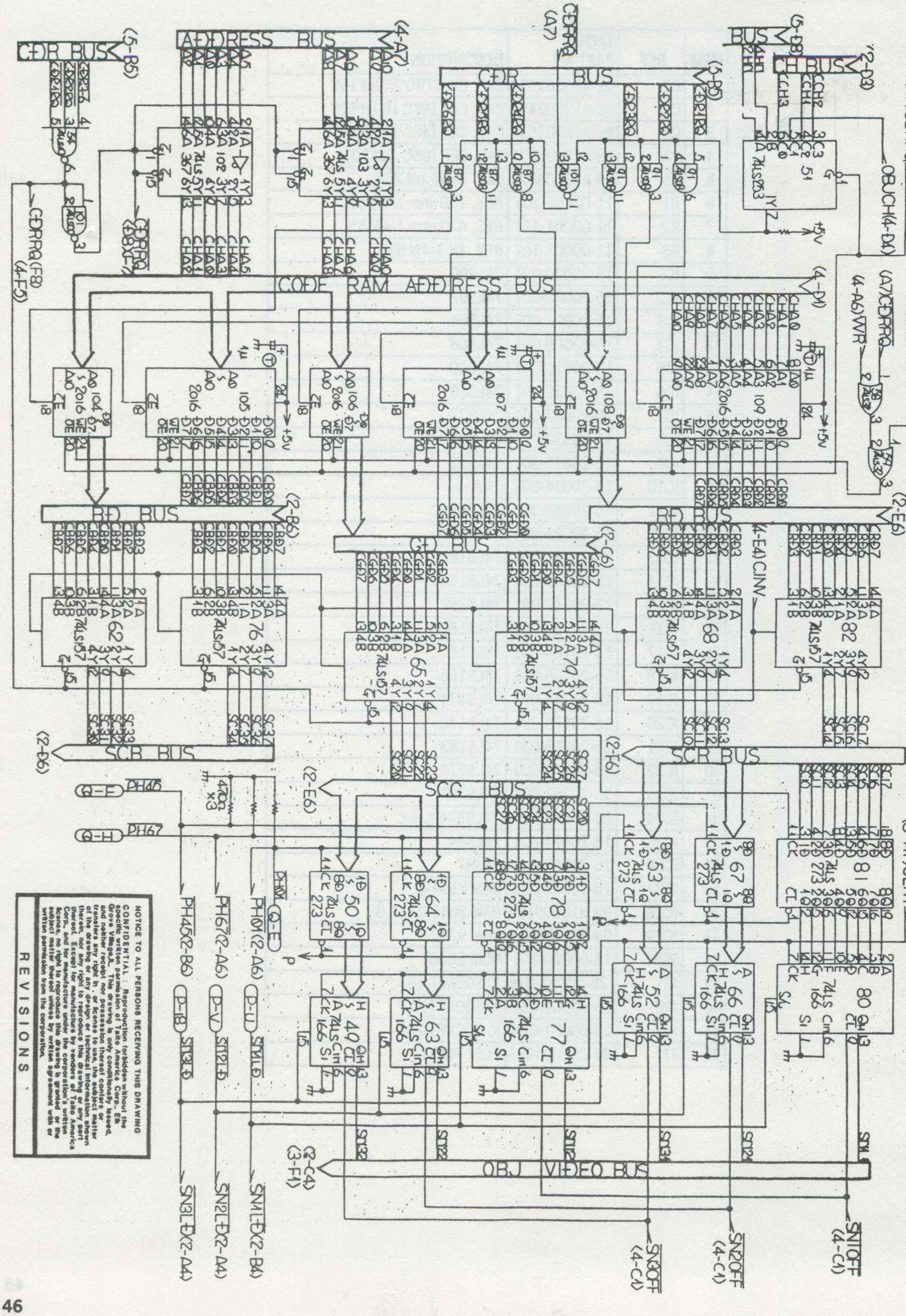
VIDEO BOARD FOUR AND FIVE BOARD SYSTEMS

FIGURE 24

ITEM	REF	TAITO PART NO.	DESCRIPTION
1	C1	99-A1000135A	CAP, ELECTRO 220uf 16V
2	C2	99-A1200245A	CAP, CER DISC 100pf 50V
3	C3	99-A1200251A	CAP, CER DISC 180pf 50V
4	C4	99-A1200317A	CAP, CER DISC .1uf 50V
5	C5	99-A1320607A	CAP, TANT 1uf 25V
6	R1	11-00001-101	RES, 100 ohm 1/4W 5%
7	R2	11-00001-471	RES, 470 ohm 1/4W 5%
8	R3	11-00001-102	RES, 1K 1/4W 5%
9	IC1	15-20000-001	74LS00
10	IC2	15-20002-001	74LS02
11	IC3	15-20004-001	74LS04
12	IC4	15-20008-001	74LS08
13	IC5	15-20010-001	74LS10
14	IC6	15-20020-001	74LS20
15	IC7	15-20027-001	74LS27
16	IC8	15-20030-001	74LS30
17	IC9	15-20032-001	74LS32
18	IC10	15-70074-001	74S74
19	IC11	15-20083-001	74LS83
20	IC12	15-20086-001	74LS86
21	IC13	15-20139-001	74LS139
22	IC14	15-20153-001	74LS153
23	IC15	15-20157-001	74LS157
24	IC16	15-20163-001	74LS163
25	IC17	15-20164-001	74LS164
26	IC18	15-20166-001	74LS166
27	IC19	15-20174-001	74LS174
28	IC20	15-20175-001	74LS175
29	IC21	15-20253-001	74LS253
30	IC22	15-20273-001	74LS273
31	IC23	15-20367-001	74LS367
32	IC24	99-B01N0374A	74LS374 A,B,C
33	IC25	15-20074-001	74LS74
34	IC26	15-30367-001	74367
35	IC27	15-10003-001	RAM 2114-2
36	IC28	99-B10F0019A	RAM 2016 C,D,F,G
37	IC29	99-B11J0006A	RAM 93422
38	ROM	16-00020-001	ROM EB16
39	IS1	26-00001-016	IC SOCKET 16P
40	IS2	26-00001-022	IC SOCKET 22P
41	IS3	26-00001-024	IC SOCKET 24P
42	TP	99-C0600403A	TEST POINT

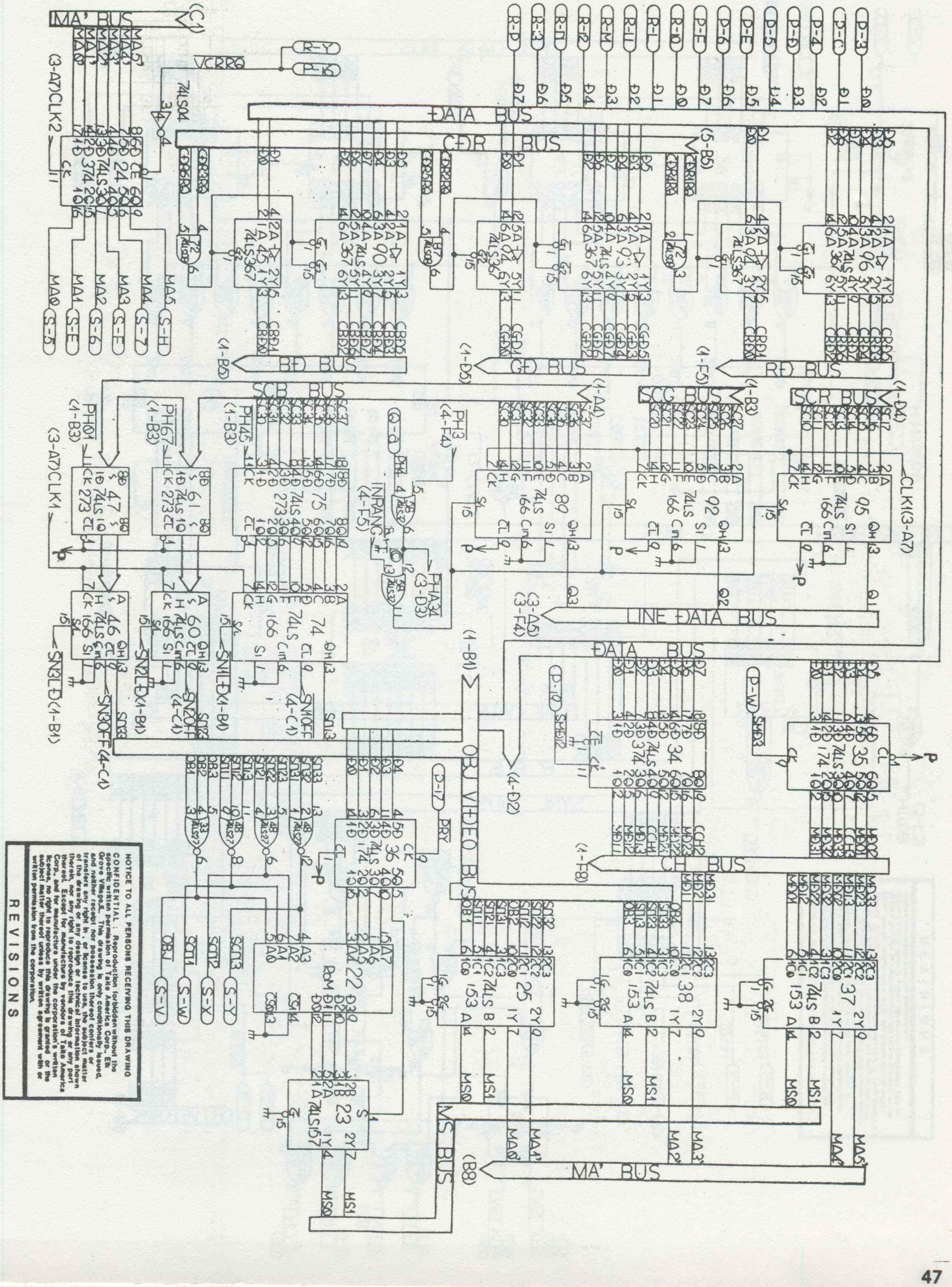
VIDEO PC BOARD SCHEMATIC 1 Of 5

FIGURE 24



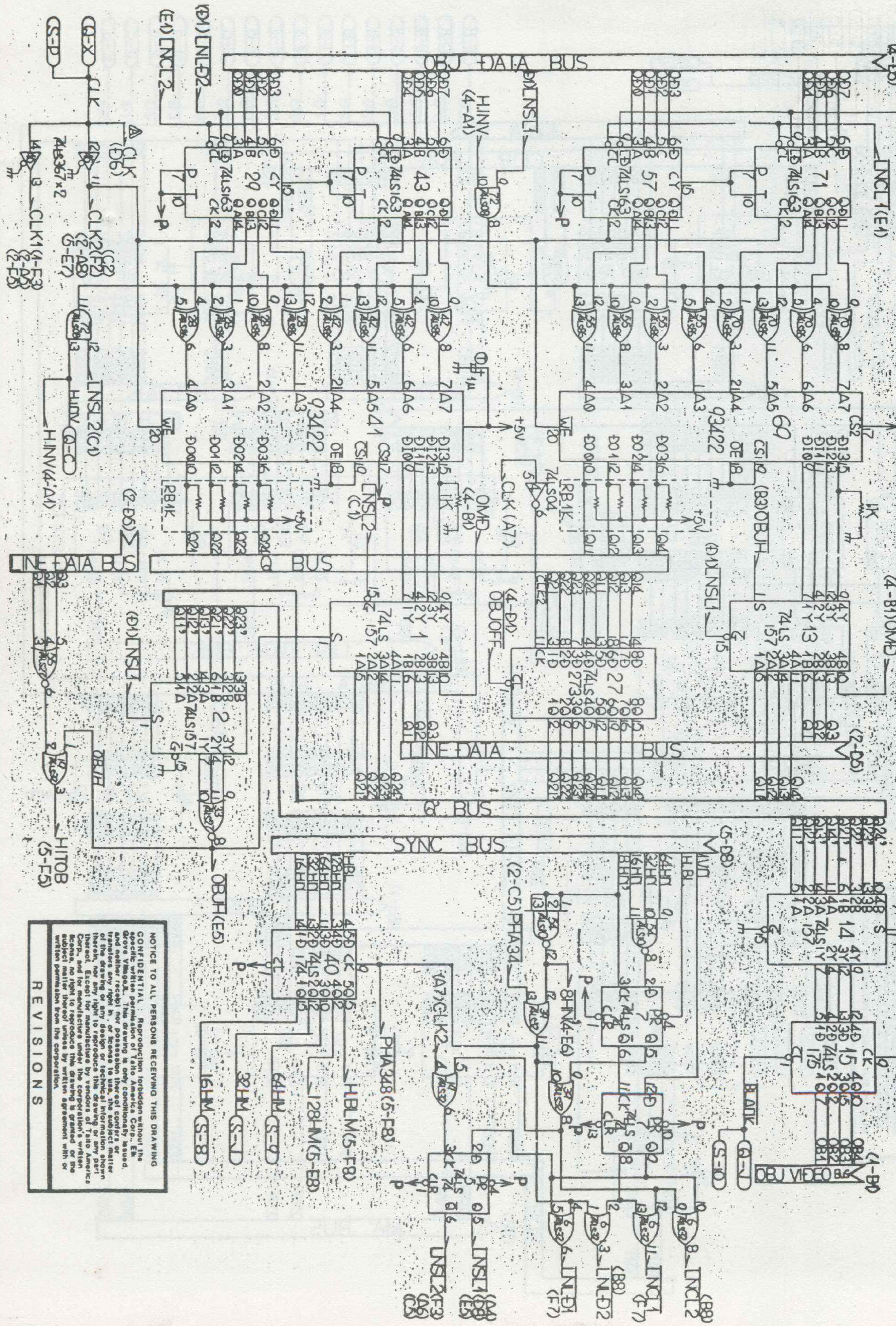
VIDEO PC BOARD SCHEMATIC 2 Of 5

FIGURE 24



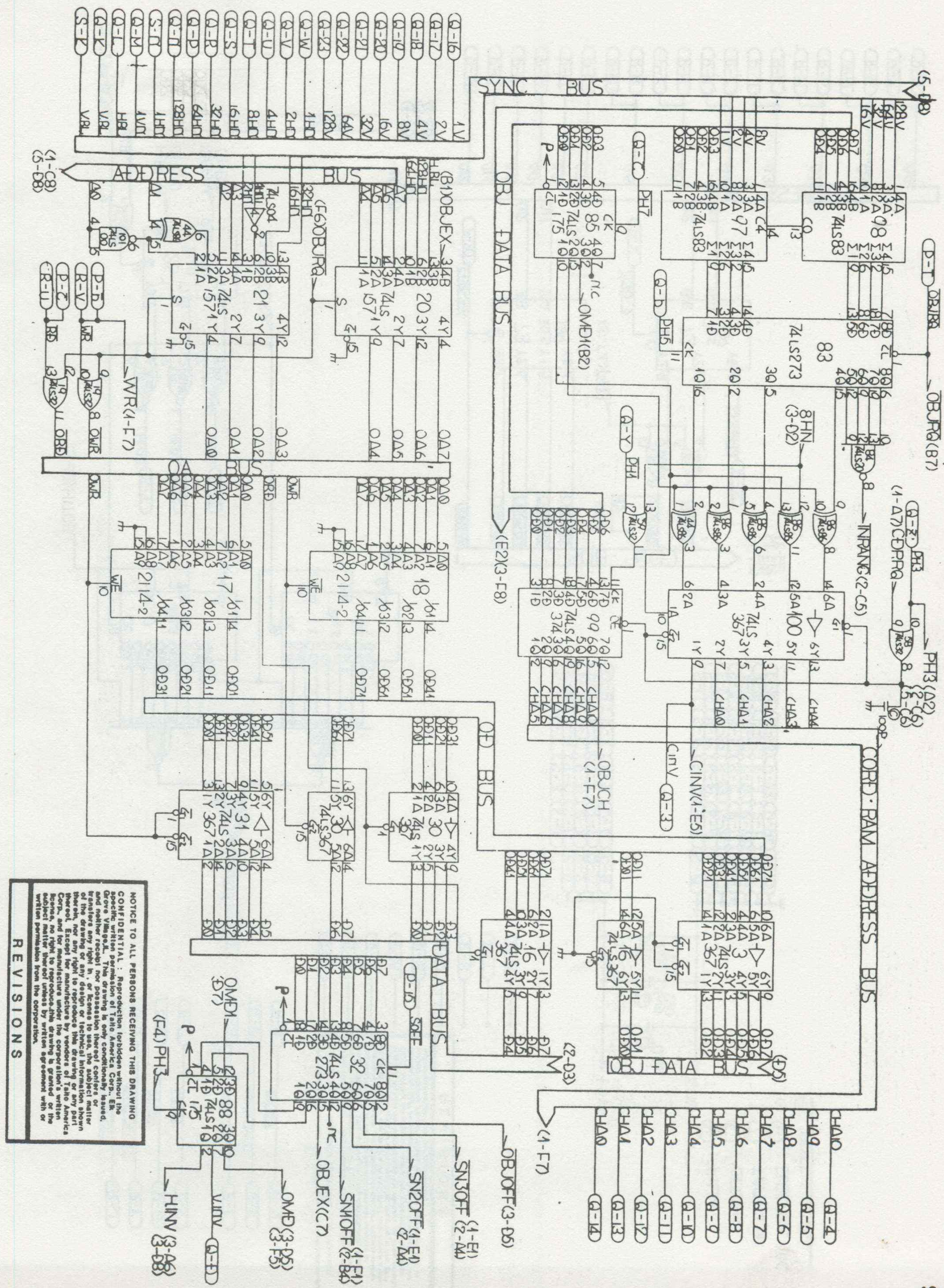
VIDEO PC BOARD SCHEMATIC 3 Of 5

FIGURE 24



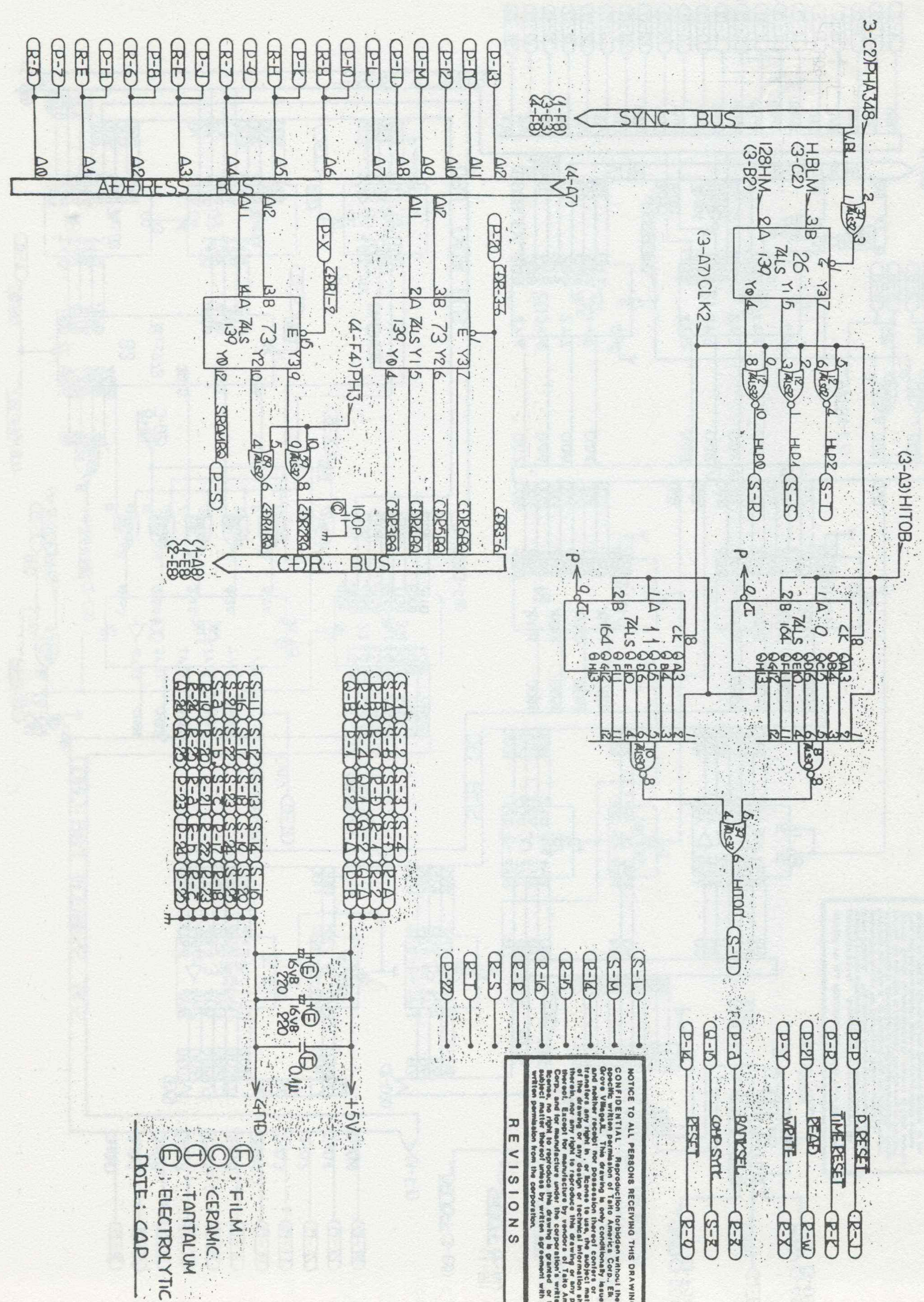
VIDEO PC BOARD SCHEMATIC 4 Of 5

FIGURE 24

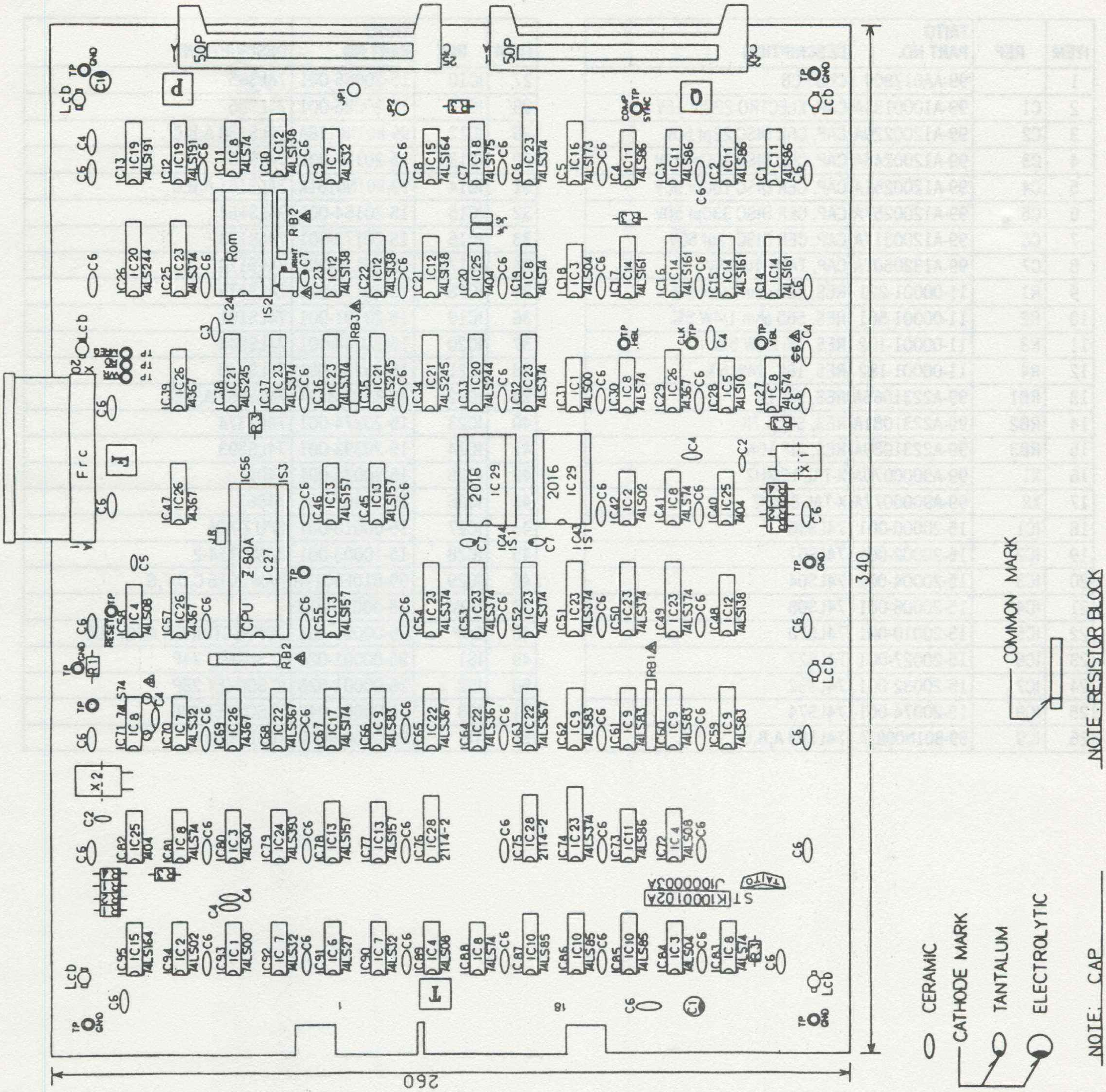


VIDEO PC BOARD SCHEMATIC 5 Of 5

FIGURE 24



CPU BOARD COMPONENT LAYOUT
(4 BOARD SYSTEM)
FIGURE 25



REVISIONS

CPU BOARD FOUR BOARD SYSTEM

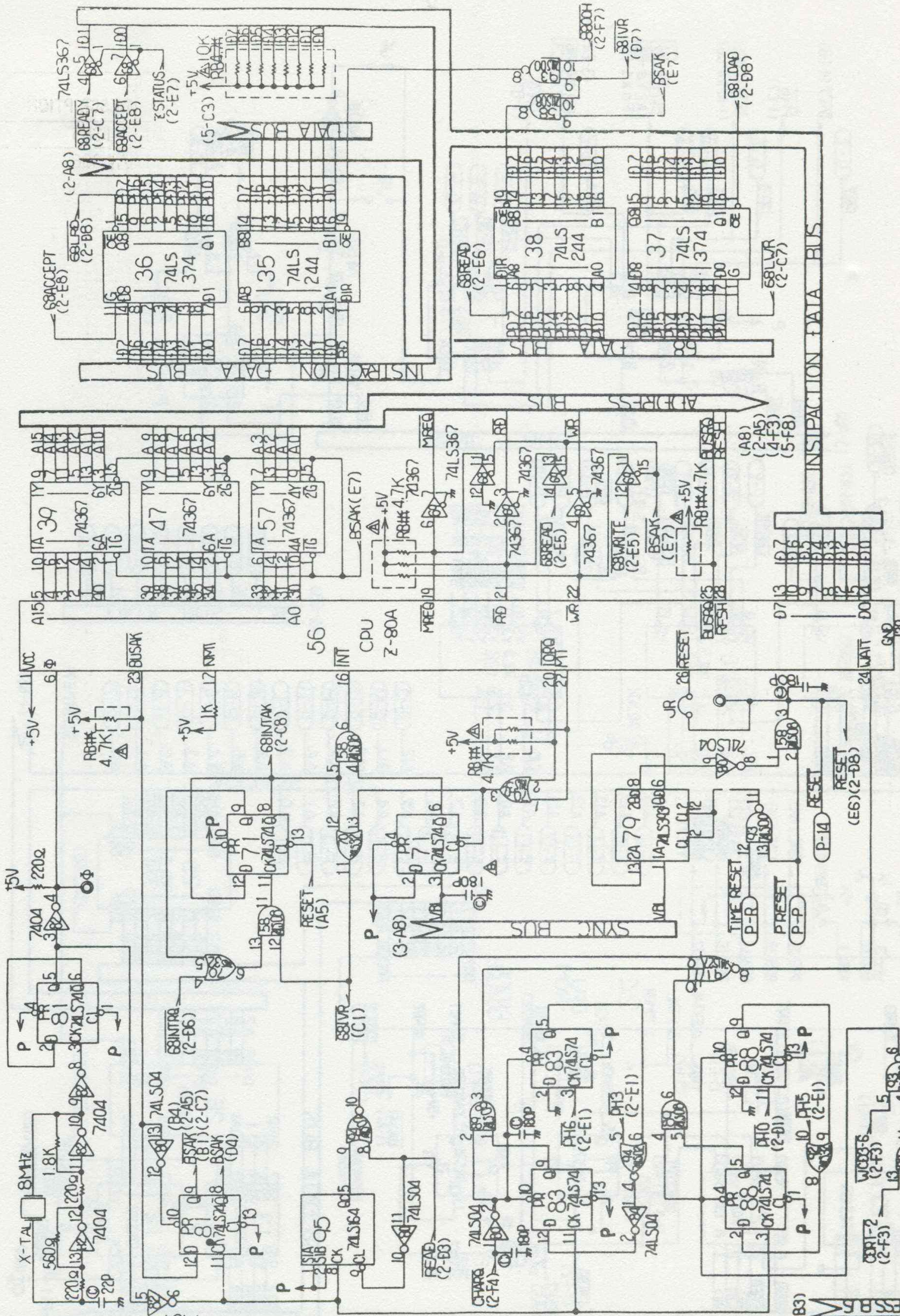
FIGURE 25

ITEM	REF	TAITO PART NO.	DESCRIPTION
1		99-AA017809	CPU PCB
2	C1	99-A1000135A	CAP, ELECTRO 220uf 16V
3	C2	99-A1200229A	CAP, CER DISC 22pf 50V
4	C3	99-A1200245A	CAP, CER DISC 100pf 50V
5	C4	99-A1200251A	CAP, CER DISC 180pf 50V
6	C5	99-A1200257A	CAP, CER DISC 330pf 50V
7	C6	99-A1200317A	CAP, CER DISC .1uf 50V
8	C7	99-A1320507A	CAP, TANT 1uf 25V
9	R1	11-00001-221	RES, 220 ohm 1/4W 5%
10	R2	11-00001-561	RES, 560 ohm 1/4W 5%
11	R3	11-00001-102	RES, 1K 1/4W 5%
12	R4	11-00001-182	RES, 18K 1/4W 5%
13	RB1	99-A2231065A	RES, SIP 1K
14	RB2	99-A2231081A	RES, SIP 4.7K
15	RB3	99-A2231089A	RES, SIP 10K
16	X1	99-A9000070A	X-TAL 12MHZ
17	X2	99-A9000072A	X-TAL 8 MHZ
18	IC1	15-20000-001	74LS00
19	IC2	15-20002-001	74LS02
20	IC3	15-20004-001	74LS04
21	IC4	15-20008-001	74LS08
22	IC5	15-20010-001	74LS10
23	IC6	15-20027-001	74LS27
24	IC7	15-20032-001	74LS32
25	IC8	15-20074-001	74LS74
26	IC9	99-B01N0083A	74LS83 A,B,C

ITEM	REF	TAITO PART NO.	DESCRIPTION
27	IC10	15-20085-001	74LS85
28	IC11	15-20086-001	74LS86
29	IC12	99-B01N0138A	74LS138 A,B,C
30	IC13	15-20157-001	74LS157
31	IC14	99-B01N0161A	74LS161 A,B,C
32	IC15	15-20164-001	74LS164
33	IC16	15-20173-001	74LS173
34	IC17	15-20174-001	74LS174
35	IC18	15-20175-001	74LS175
36	IC19	15-20191-001	74LS191
37	IC20	15-20244-001	74LS244
38	IC21	15-20245-001	74LS245
39	IC22	99-B01N0367A	74LS367 A,B,C
40	IC23	15-20374-001	74LS374
41	IC24	15-20393-001	74LS393
42	IC25	15-30074-001	7404
43	IC26	15-30367-001	74367
44	IC27	15-00015-001	CPU Z-80A
45	IC28	15-10003-001	RAM 2114-2
46	IC29	99-B10F0019A	RAM 2016 C,D,F,G
47	ROM	16-00016-012	
48	50P	25-00001-101	CONNECTOR RT. ANG. 50P
49	IS1	26-00001-024	IC SOCKET 24P
50	IS2	26-00001-028	IC SOCKET 28P
51	IS3	26-00001-040	IC SOCKET 40P
52	TP	99-C0600403A	TEST POINT

CPU PC BOARD SCHEMATIC 1 of 5

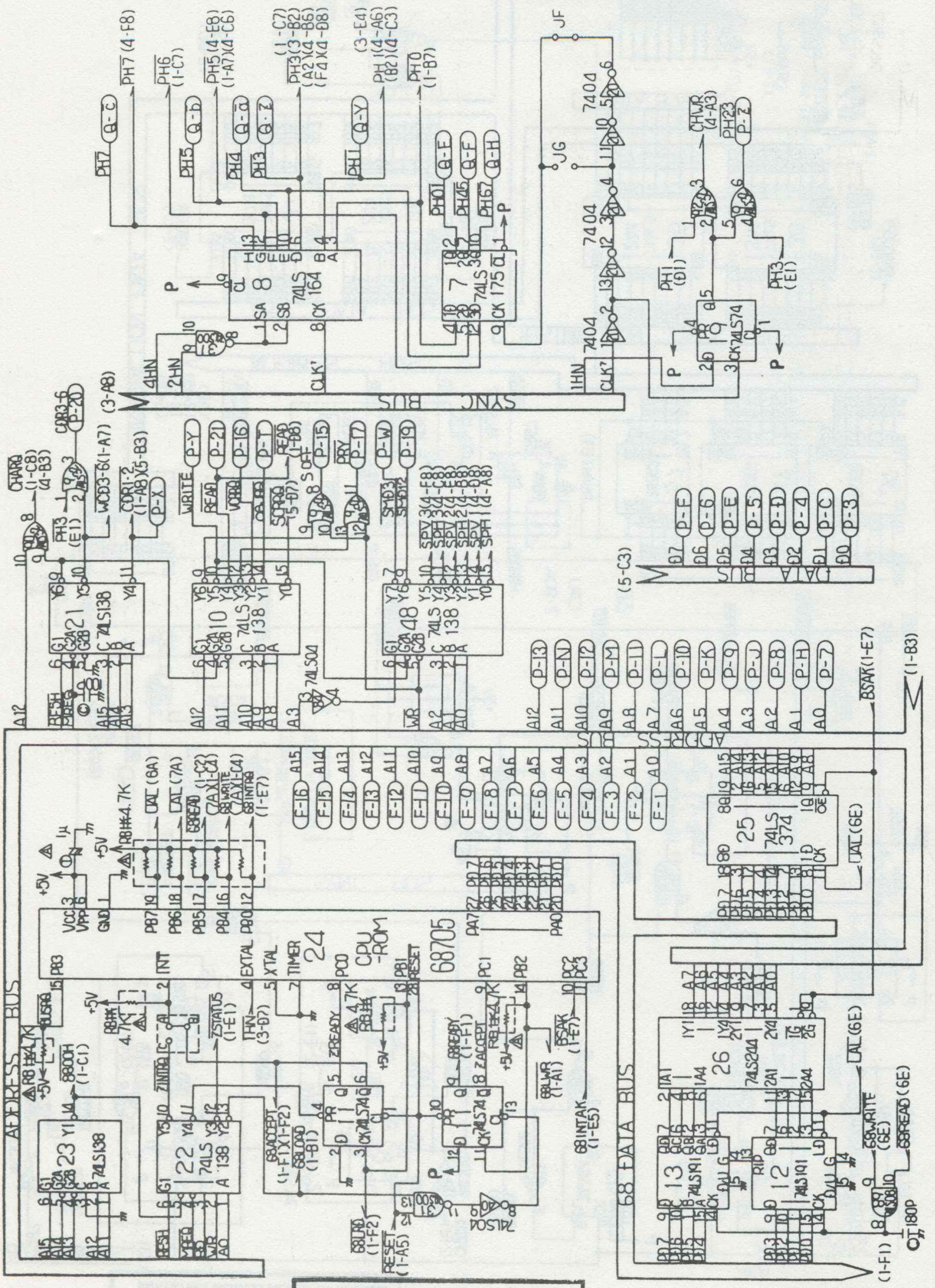
FIGURE 25



REVISIONS

CPU PC BOARD SCHEMATIC 2 of 5

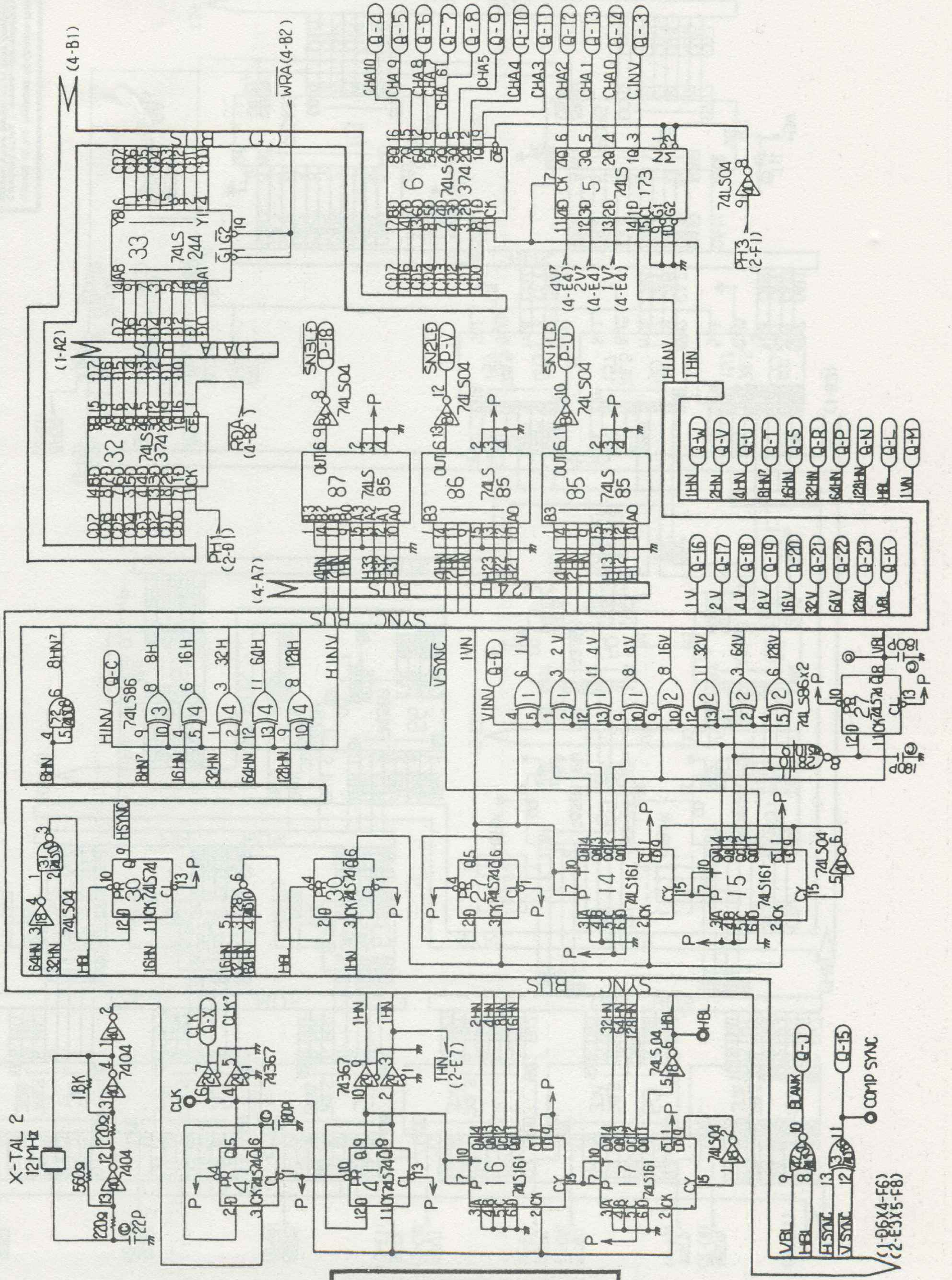
FIGURE 25



REVISIONS

CPU PC BOARD SCHEMATIC 3 of 5

FIGURE 25



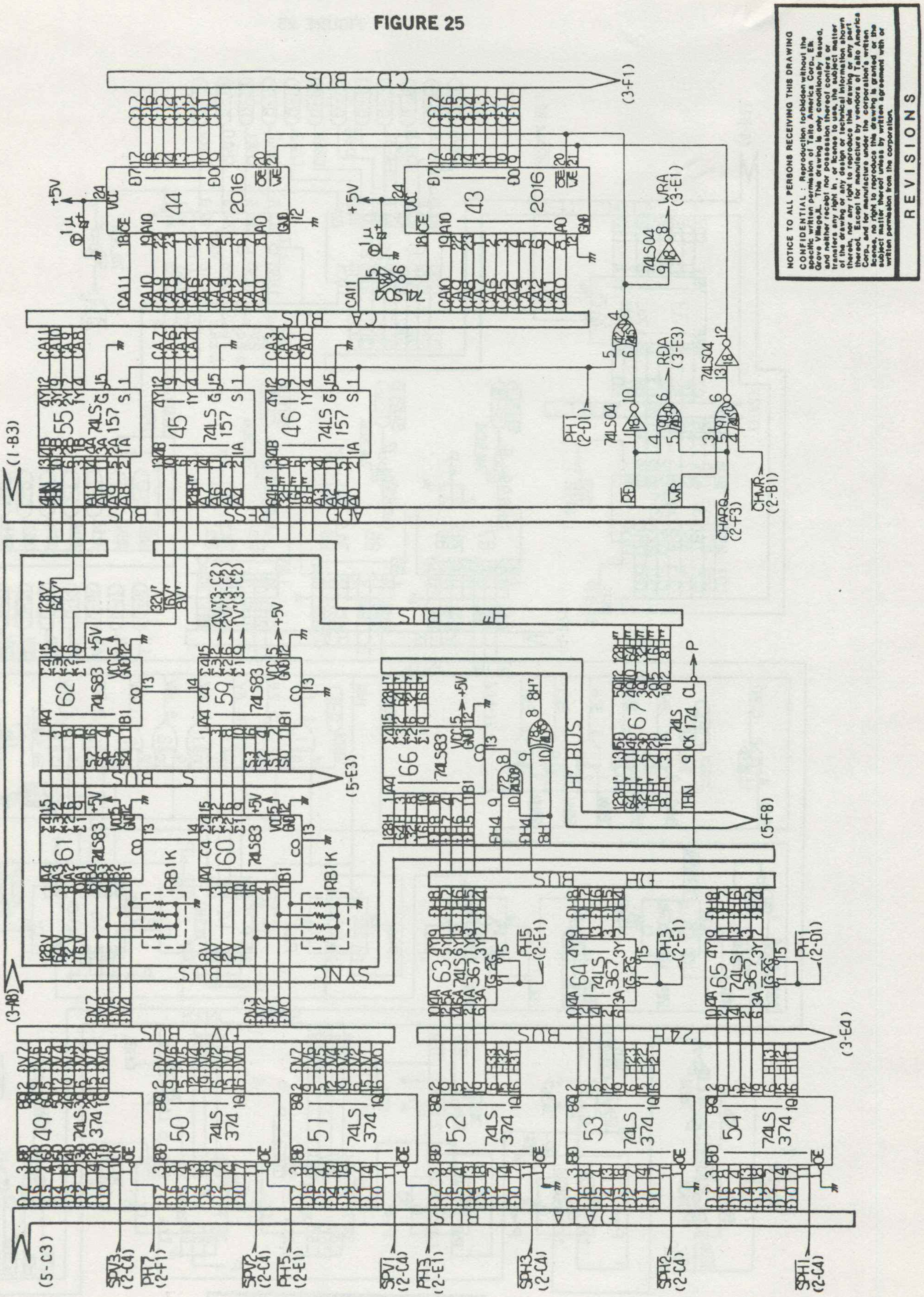
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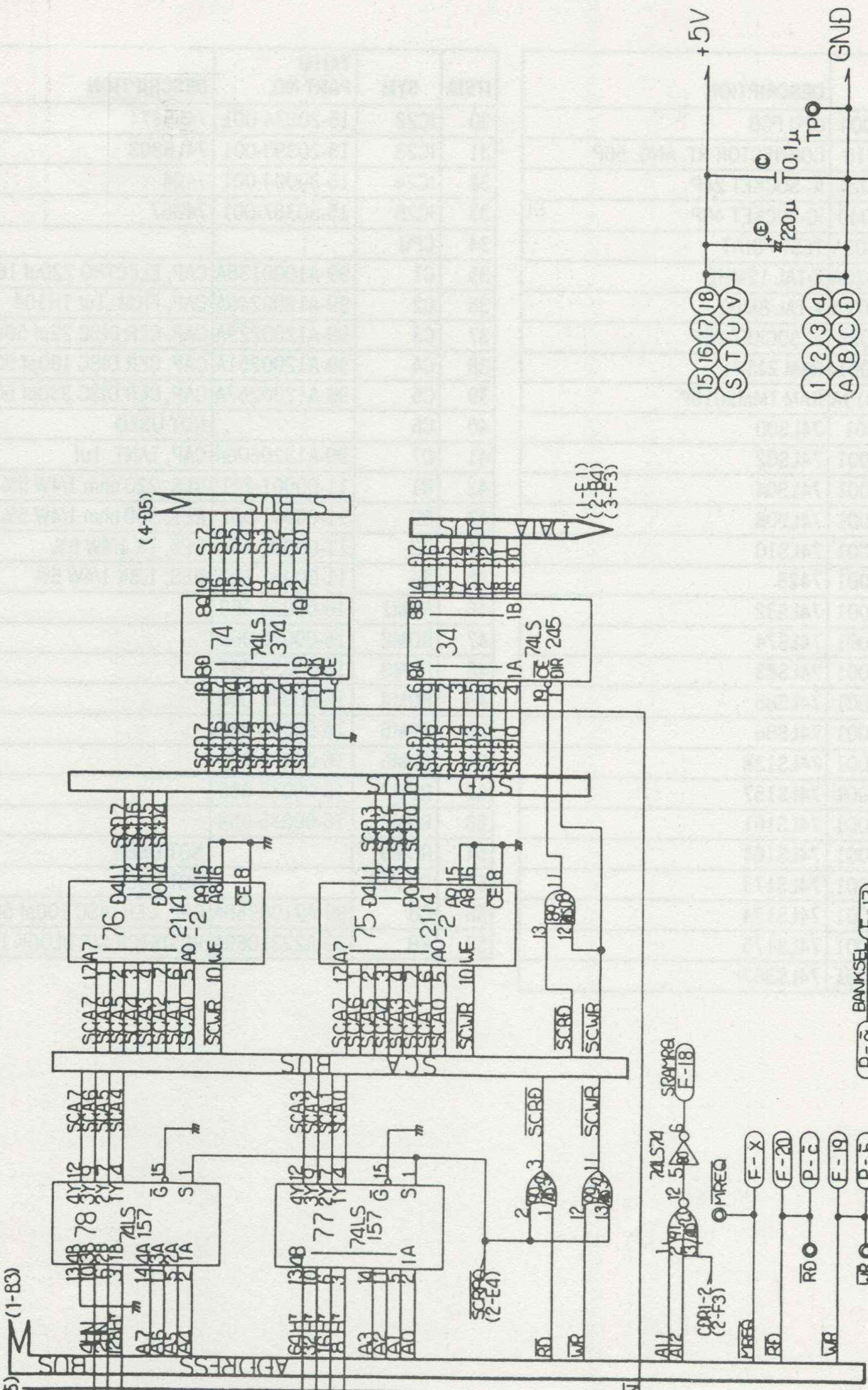
CPU PC BOARD SCHEMATIC 4 of 5

FIGURE 25



CPU PC BOARD SCHEMATIC 5 of 5

FIGURE 25



REVISIONS

CPU BOARD FIVE BOARD SYSTEM

FIGURE 25

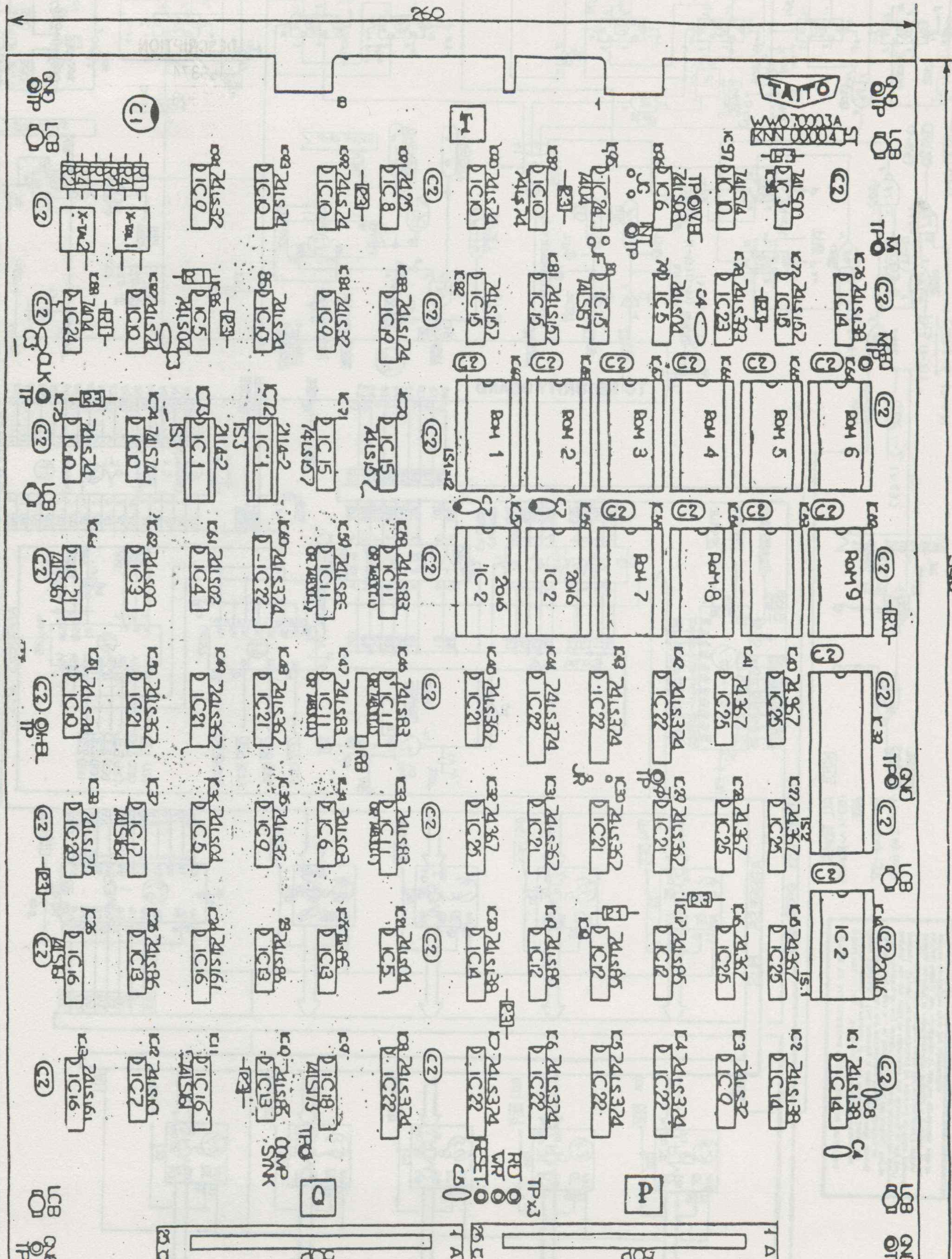
ITEM	SYM	TAITO PART NO.	DESCRIPTION
1		99-KNN00004	CPU PCB
2	50P	99-AA055310	CONNECTOR RT. ANG. 50P
3	1S1	26-00001-024	IC-SOCKET 24P
4	1S2	26-00001-040	IC-SOCKET 40P
5	TP	99-C0600403A	TEST POINT
6	XTAL	99-A9000070A	X-TAL 12MHZ
7	XTAL	99-A9000072A	X-TAL 8MHZ
8	1S3	26-00001-028	IC SOCKET 28P
9	IC1	15-10003-001	RAM 2114-2
10	IC2	99-B10F0019A	RAM TMM2016P
11	IC3	99-AAT33001	74LS00
12	IC4	15-20002-001	74LS02
13	IC5	15-20004-001	74LS04
14	IC6	15-20008-001	74LS08
15	IC7	15-20010-001	74LS10
16	IC8	15-30025-001	7425
17	IC9	15-20032-001	74LS32
18	IC10	15-20074-001	74LS74
19	IC11	15-20083-001	74LS83
20	IC12	15-20085-001	74LS85
21	IC13	15-20086-001	74LS86
22	IC14	15-20138-001	74LS138
23	IC15	15-20157-001	74LS157
24	IC16	15-20161-001	74LS161
25	IC17	15-20164-001	74LS164
26	IC18	15-20173-001	74LS173
27	IC19	15-20174-001	74LS174
28	IC20	15-20175-001	74LS175
29	IC21	15-20367-001	74LS367

ITEM	SYM	TAITO PART NO.	DESCRIPTION
30	IC22	15-20374-001	74LS374
31	IC23	15-20393-001	74LS393
32	IC24	15-30004-001	7404
33	IC25	15-30367-001	74367
34	CPU		
35	C1	99-A1000135A	CAP, ELECTRO 220uf 16V
36	C2	99-A1200245A	CAP, FILM .1uf 1H104
37	C3	99-A1200229A	CAP, CER DISC 22pf 50V
38	C4	99-A1200251A	CAP, CER DISC 180pf 50V
39	C5	99-A1200257A	CAP, CER DISC 330pf 50V
40	C6		NOT USED
41	C7	99-A1320606A	CAP, TANT. 1uf
42	R1	11-00001-221	RES, 220 ohm 1/4W 5%
43	R2	11-00001-561	RES, 560 ohm 1/4W 5%
44	R3	11-00001-102	RES, 1K 1/4W 5%
45	R4	11-00001-182	RES, 1.8K 1/4W 5%
46	ROM1	16-00035-069	
47	ROM2	16-00035-068	
48	ROM3	16-00035-067	
49	ROM4	16-00035-066	
50	ROM5	16-00035-065	
51	ROM6	16-00035-064	
52	ROM7	16-00035-055	
53	ROM8	16-00035-054	
54	ROM9		NOT USED
55	ROM10		NOT USED
56	C8	99-A2100245A	CAP, CER DISC 100pf 50V
57	RB	99-A2231069A	RESISTOR SIP BLOCK 1K

REVISIONS

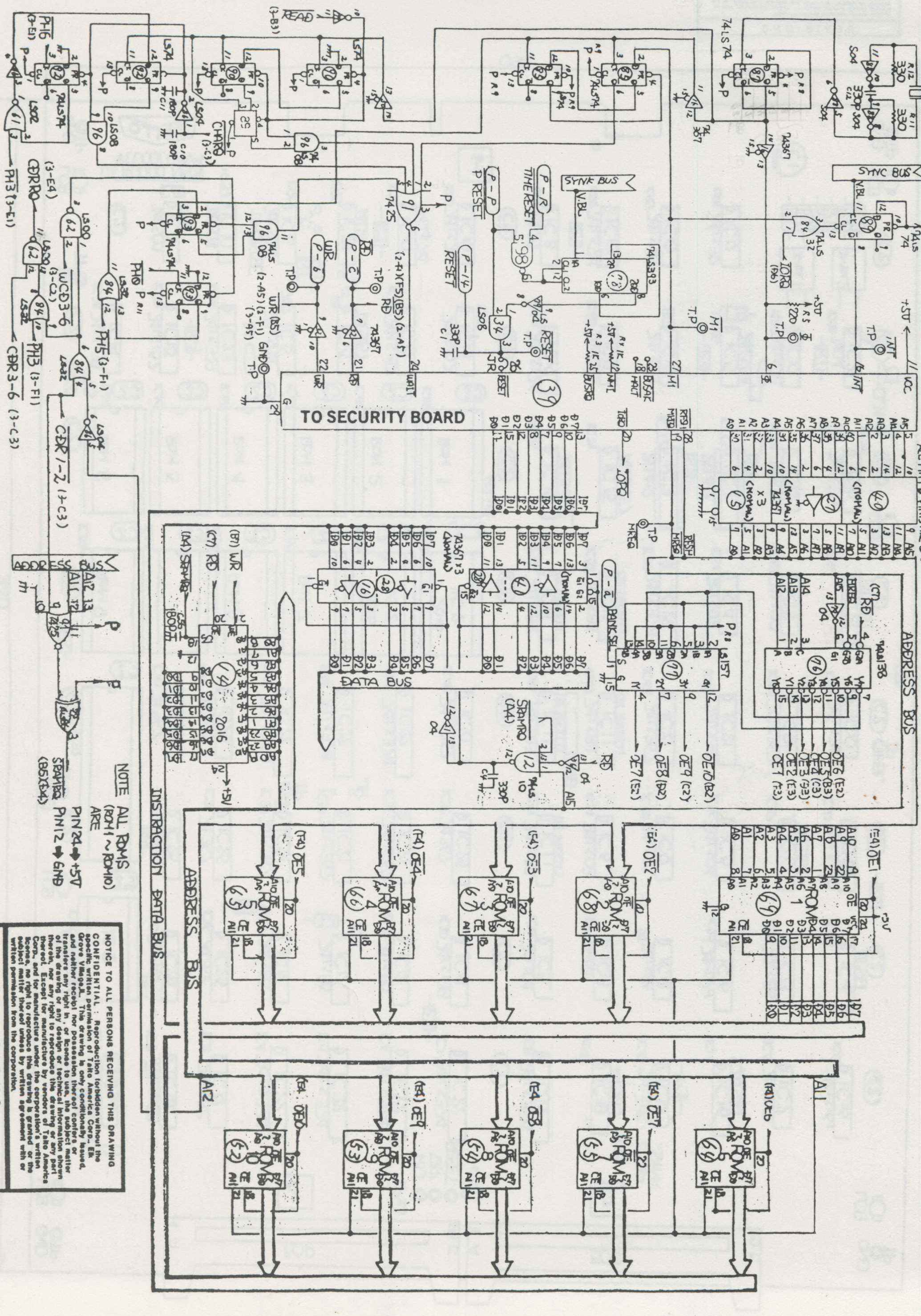
CPU BOARD COMPONENT LAYOUT (5 BOARD SYSTEM)

FIGURE 26



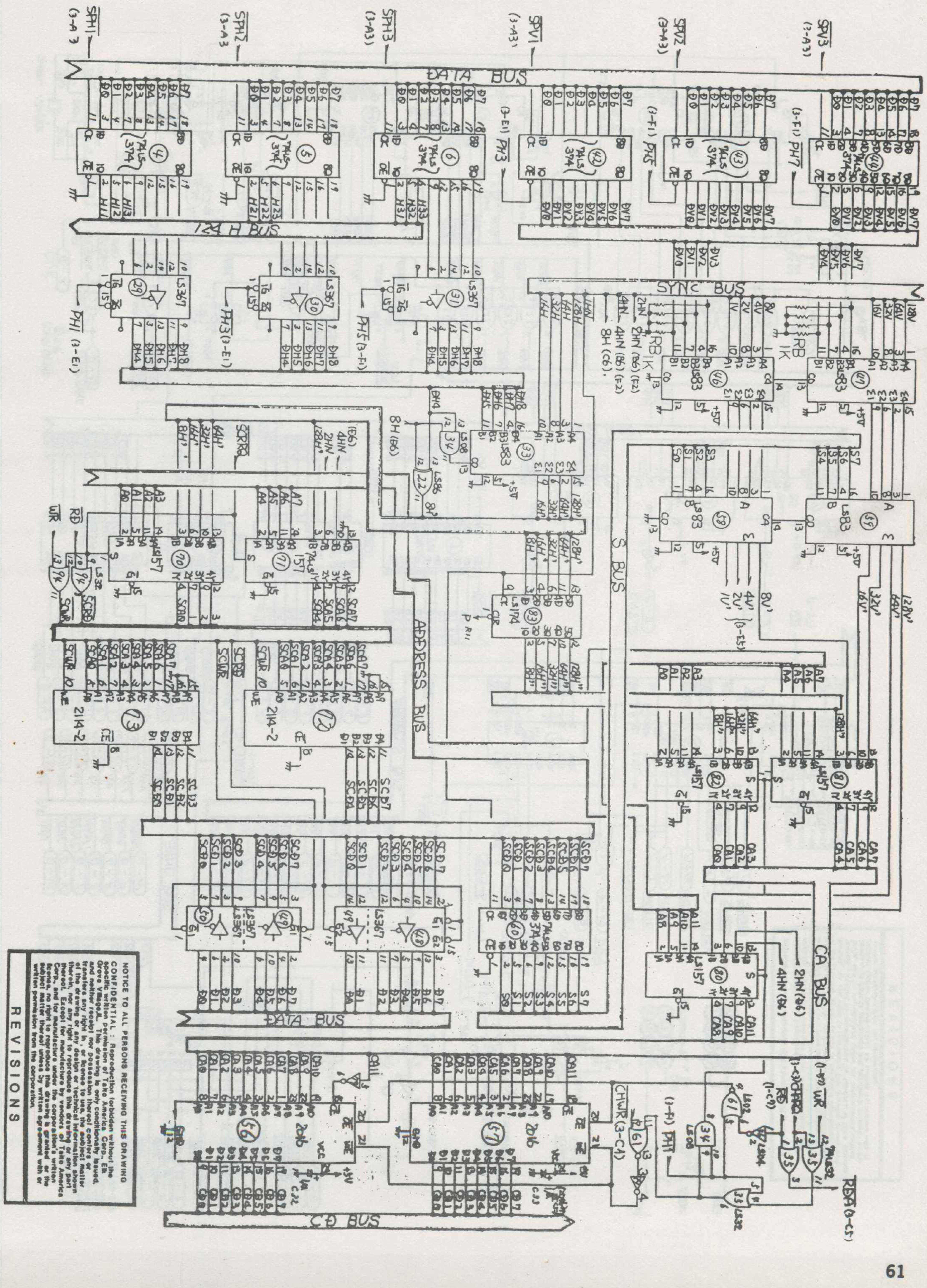
CPU PC BOARD SCHEMATIC 1 of 3

FIGURE 26



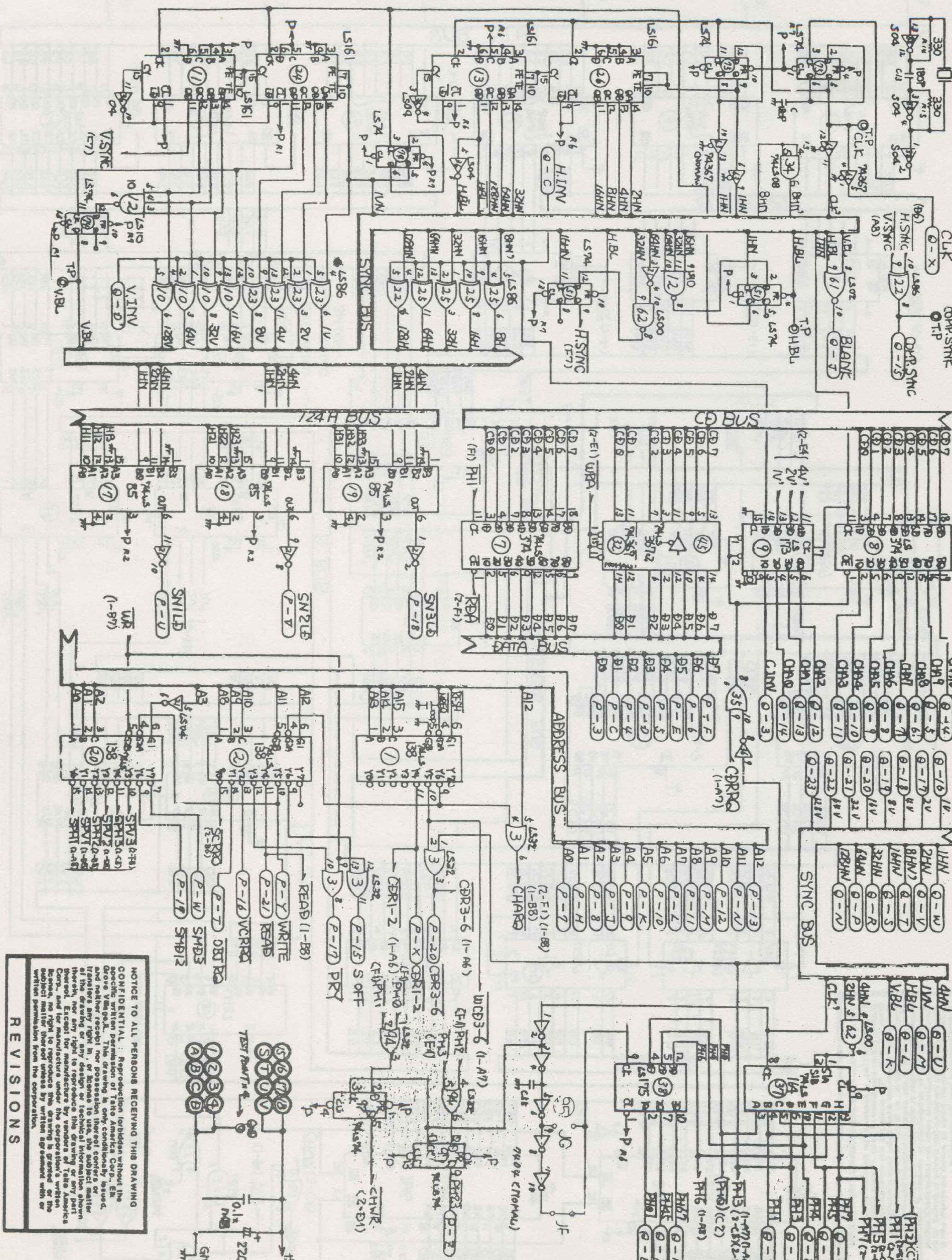
CPU PC BOARD SCHEMATIC 2 of 3

FIGURE 26

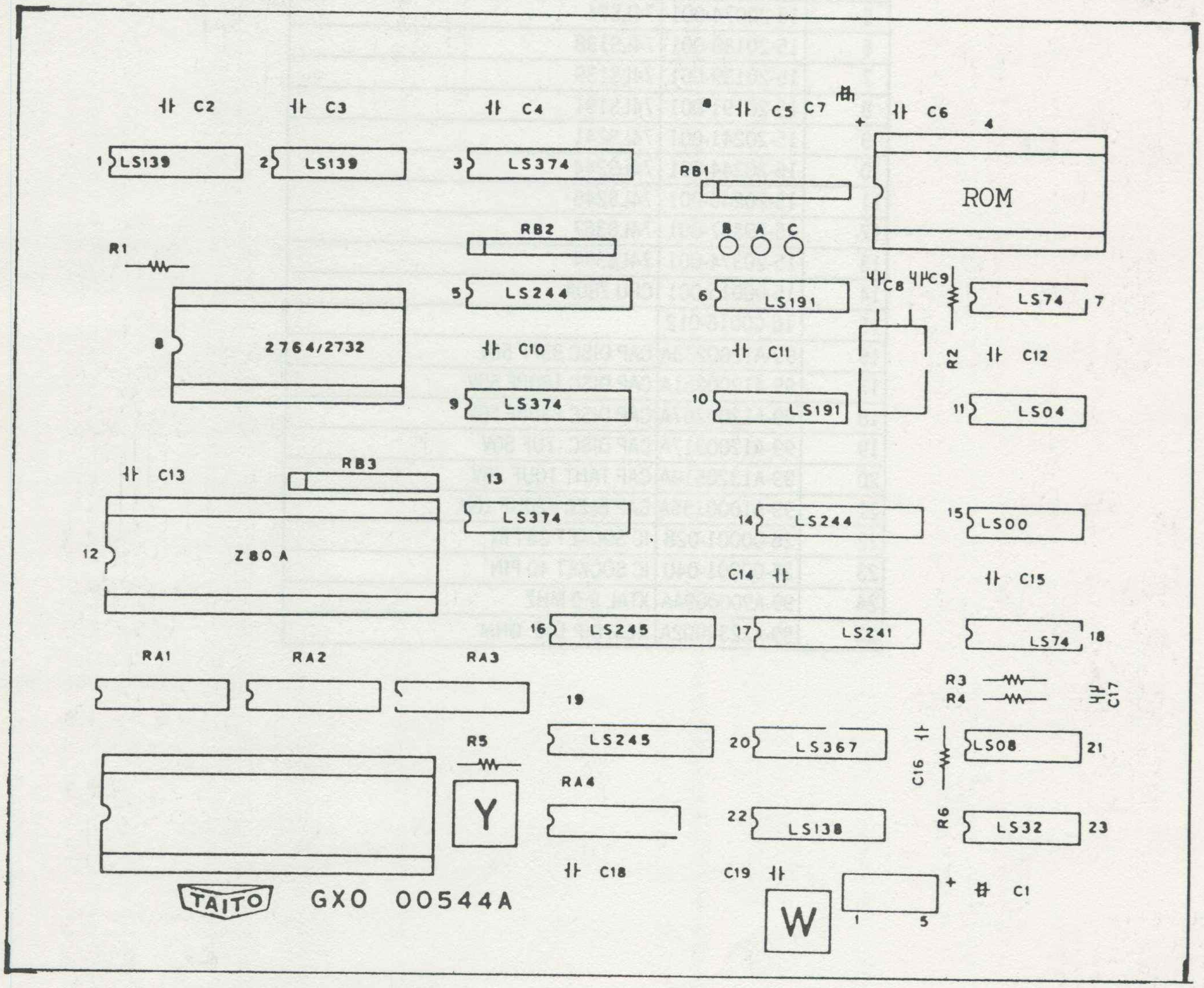


CPU PC BOARD SCHEMATIC 3 of 3

FIGURE 26



SECURITY BOARD
(5 BOARD SYSTEM)
FIGURE 27



REVISIONS

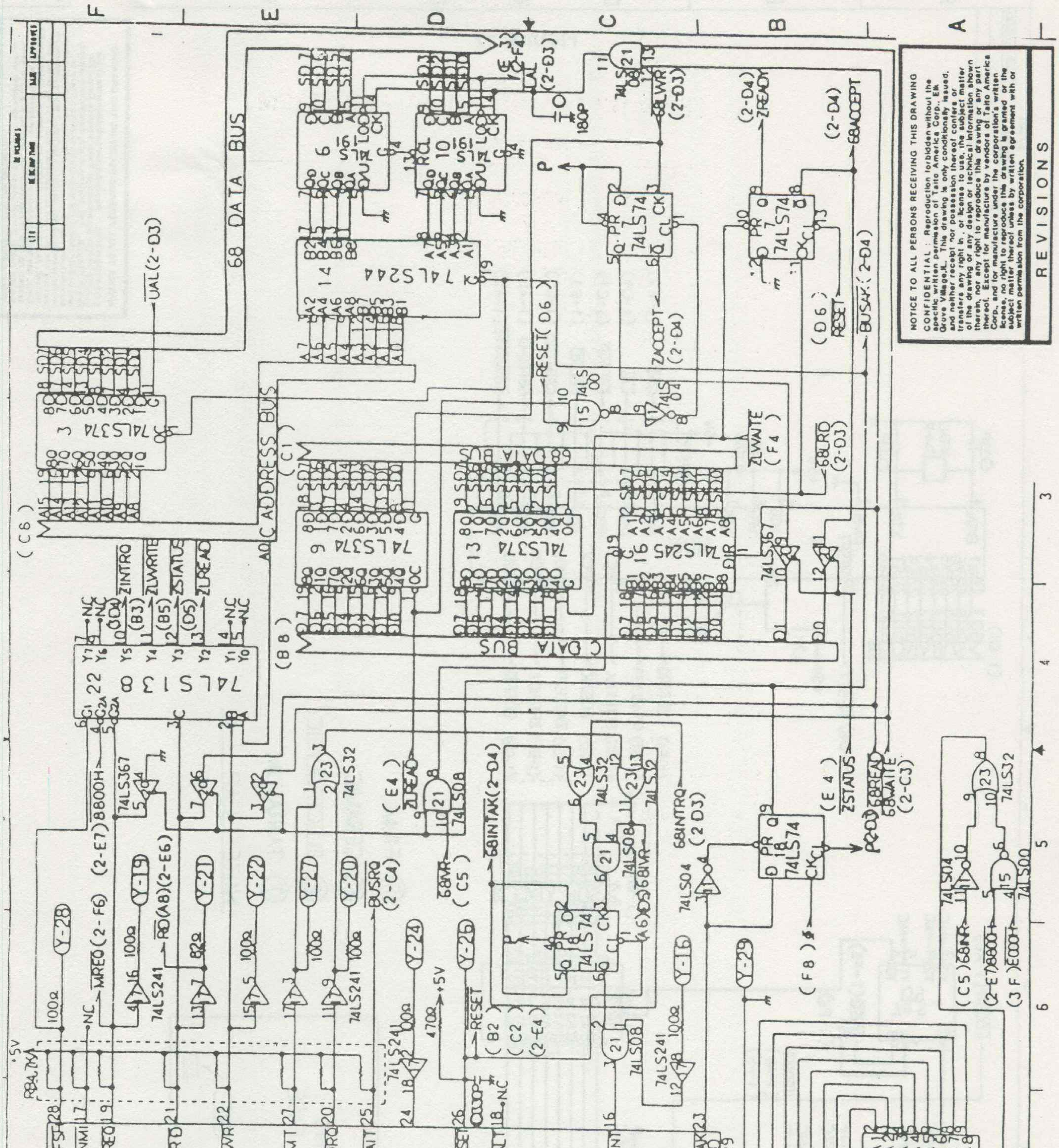
SECURITY BOARD FIVE BOARD SYSTEM

FIGURE 27

ITEM	TAITO PART NO.	DESCRIPTION
1	15-20000-001	74LS00
2	15-20004-001	74LS04
3	15-20008-001	74LS08
4	15-20032-001	74LS32
5	15-20074-001	74LS74
6	15-20138-001	74LS138
7	15-20139-001	74LS139
8	15-20191-001	74LS191
9	15-20241-001	74LS241
10	15-20244-001	74LS244
11	15-20245-001	74LS245
12	15-20367-001	74LS367
13	15-20374-001	74LS374
14	15-00015-001	CPU Z80A
15	16-00016-012	
16	99-A1200233A	CAP DISC 33PF 50V
17	99-A1200251A	CAP DISC 180PF 50V
18	99-A1200257A	CAP DISC 330PF 50V
19	99-A1200317A	CAP DISC .1UF 50V
20	99-A1320519A	CAP TANT 10UF 25V
21	99-A1000135A	CAP ELEC 220UF 16V
22	26-00001-028	IC SOCKET 28 PIN
23	26-00001-040	IC SOCKET 40 PIN
24	99-A9000094A	XTAL 3.0 MHZ
25	99-A2239002A	RES, DIP 100 OHM

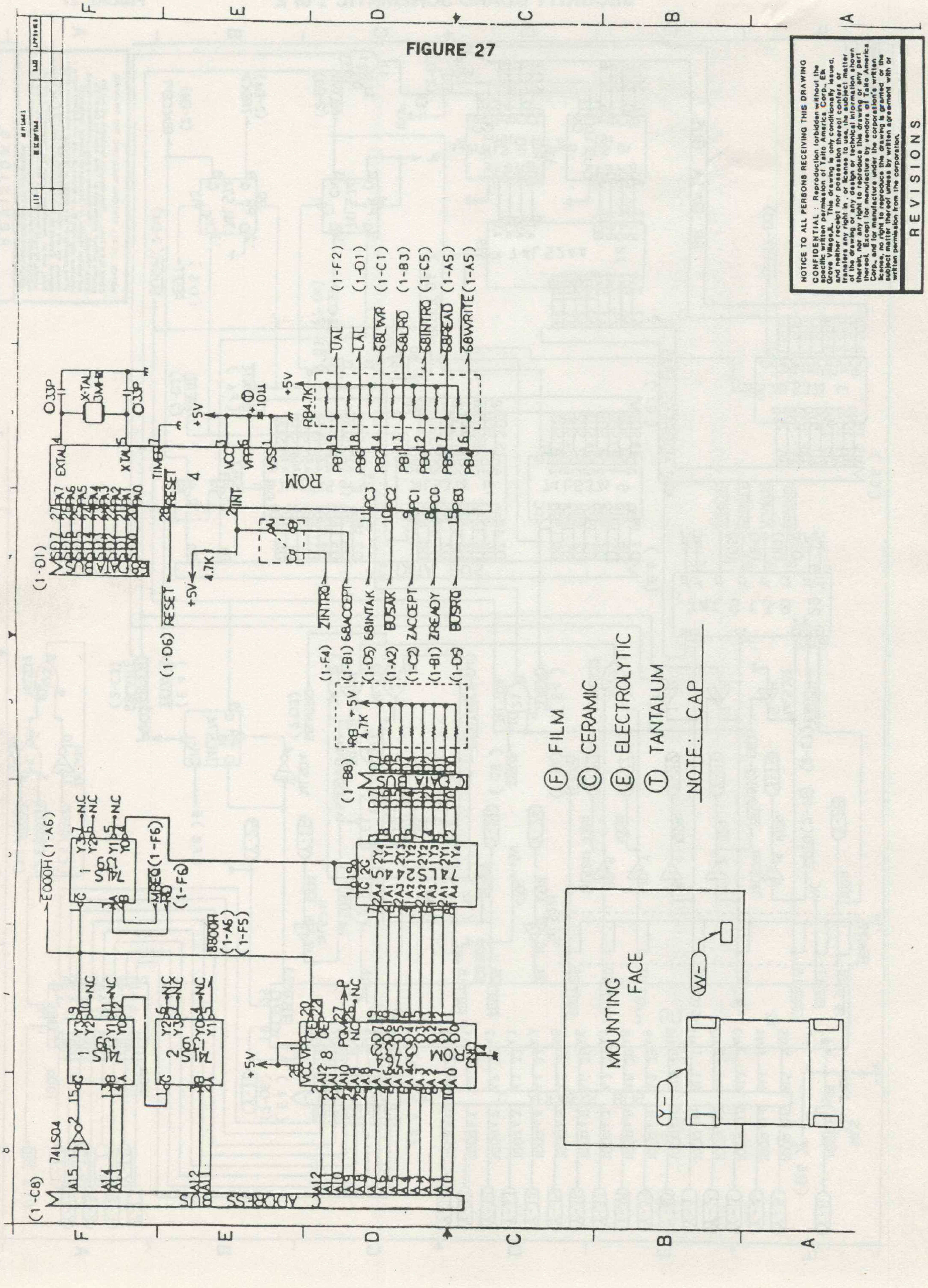
SECURITY BOARD SCHEMATIC 1 of 2

FIGURE 27

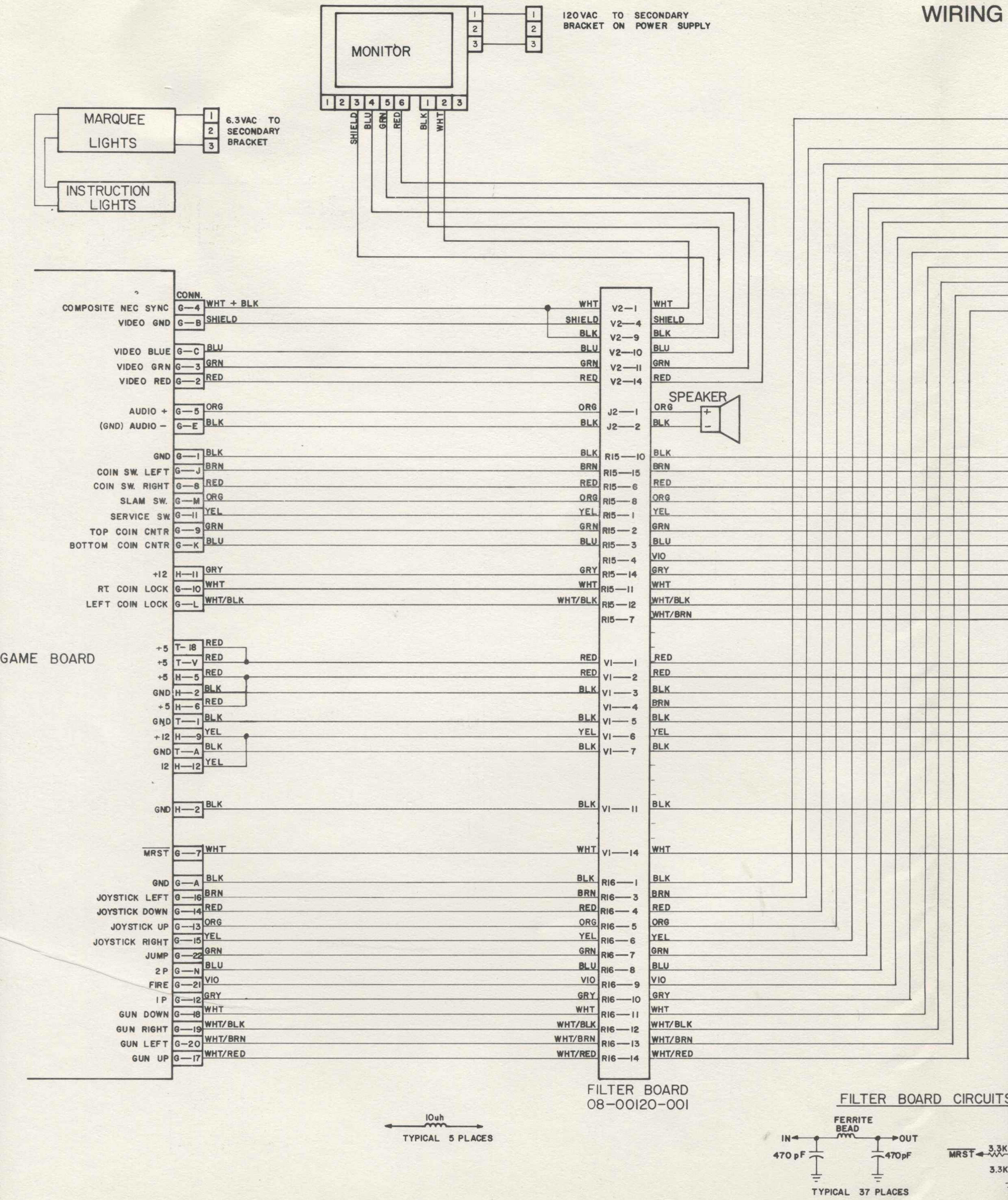


SECURITY BOARD SCHEMATIC 2 of 2

FIGURE 27

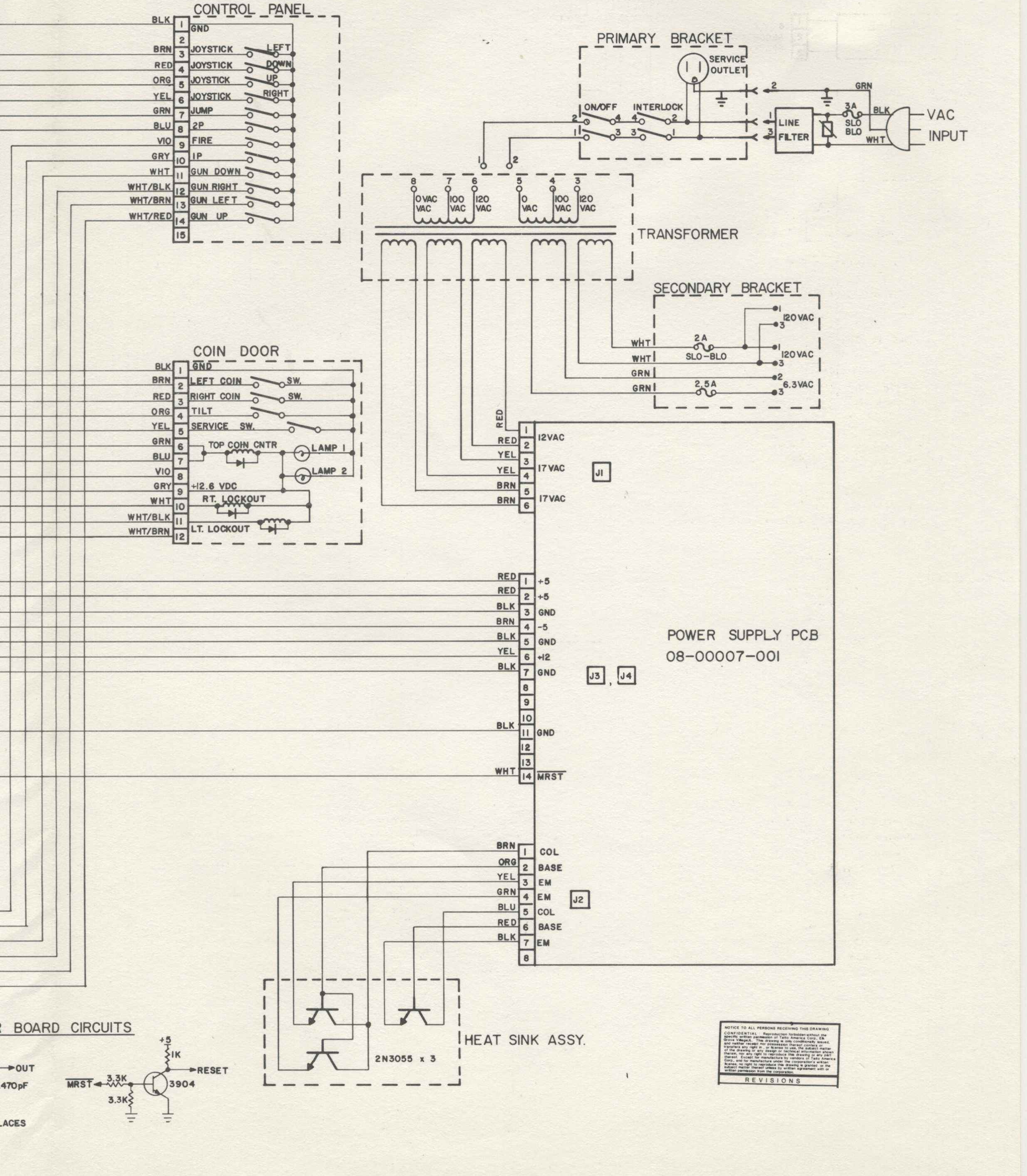


WIRING



MONITOR
120VAC TO SECONDARY BRACKET ON POWER SUPPLY
MARQUEE LIGHTS
6.3VAC TO SECONDARY BRACKET
INSTRUCTION LIGHTS
SHIELD BLU GRN RED BLK WHT
GAME BOARD
CONN.
COMPOSITE NEC SYNC G—4 WHT + BLK
VIDEO GND G—B SHIELD
VIDEO BLUE G—C BLU
VIDEO GRN G—3 GRN
VIDEO RED G—2 RED
AUDIO + G—5 ORG
(GND) AUDIO – G—E BLK
GND G—1 BLK
COIN SW. LEFT G—J BRN
COIN SW. RIGHT G—8 RED
SLAM SW. G—M ORG
SERVICE SW. G—11 YEL
TOP COIN CNTR G—9 GRN
BOTTOM COIN CNTR G—K BLU
+12 H—11 GRY
RT COIN LOCK G—10 WHT
LEFT COIN LOCK G—L WHT/BLK
+5 T—18 RED
+5 T—V RED
+5 H—5 RED
GND H—2 BLK
+5 H—6 RED
GND T—1 BLK
+12 H—9 YEL
GND T—A BLK
12 H—12 YEL
GND H—2 BLK
MRST G—7 WHT
GND G—A BLK
JOYSTICK LEFT G—16 BRN
JOYSTICK DOWN G—14 RED
JOYSTICK UP G—13 ORG
JOYSTICK RIGHT G—15 YEL
JUMP G—22 GRN
2P G—N BLU
FIRE G—21 VIO
1P G—12 GRY
GUN DOWN G—18 WHT
GUN RIGHT G—19 WHT/BLK
GUN LEFT G—20 WHT/BRN
GUN UP G—17 WHT/RED
WHT V2—1 WHT
SHIELD V2—4 SHIELD
BLK V2—9 BLK
BLU V2—10 BLU
GRN V2—11 GRN
RED V2—14 RED
SPEAKER
ORG J2—1 ORG
BLK J2—2 BLK
BLK R15—10 BLK
BRN R15—15 BRN
RED R15—6 RED
ORG R15—8 ORG
YEL R15—1 YEL
GRN R15—2 GRN
BLU R15—3 BLU
R15—4 VIO
GRY R15—14 GRY
WHT R15—11 WHT
WHT/BLK R15—12 WHT/BLK
R15—7 WHT/BRN
RED V1—1 RED
RED V1—2 RED
BLK V1—3 BLK
V1—4 BRN
BLK V1—5 BLK
YEL V1—6 YEL
BLK V1—7 BLK
BLK V1—11 BLK
WHT V1—14 WHT
BLK R16—1 BLK
BRN R16—3 BRN
RED R16—4 RED
ORG R16—5 ORG
YEL R16—6 YEL
GRN R16—7 GRN
BLU R16—8 BLU
VIO R16—9 VIO
GRY R16—10 GRY
WHT R16—11 WHT
WHT/BLK R16—12 WHT/BLK
WHT/BRN R16—13 WHT/BRN
WHT/RED R16—14 WHT/RED
FILTER BOARD
08-00120-001
10uh
TYPICAL 5 PLACES
FILTER BOARD CIRCUITS
IN
FERRITE BEAD
OUT
470 pF
470pF
TYPICAL 37 PLACES
MRST
3.3K
3.3K

WIRING DIAGRAM



WARRANTY

TAITO AMERICA CORPORATION warrants that its printed circuit boards and parts are free from defects in material and workmanship under nomal use and service for a period of ninety (90) days from the date of shipment. Seller warrants that its monitors are free from defects in material and workmanship under normal use for a period of thirty (30) days from the date of shipment. The factory also warrants all socketed parts for a period of ninety (90) days when furnished with the game serial number.

If the above products fail to conform to this Warranty Taito America Corporation has the option to repair, replace, or credit the Buyer's account.

The Buyer must notify Taito America Corporation in writing upon finding the defective product. Buyer must also return the defective product prepaid to Taito America Corporation's factory located in Elk Grove Village, Illinois.

If Taito America Corporation determines upon examining the returned product that damage was caused by accident, misuse, neglect, modification, or improper repair or testing, this Warranty will be void.

In no event will Taito America Corporation be held for loss of profits to Buyer.

TAITO ®
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Telephone (312) 981-1000 Telex 25-3290